STEREO CASSETTE RECEIVER

KRC-747D

SERVICE MANUAL

KENWOOD

TRIO-KENWOOD CORPORATION

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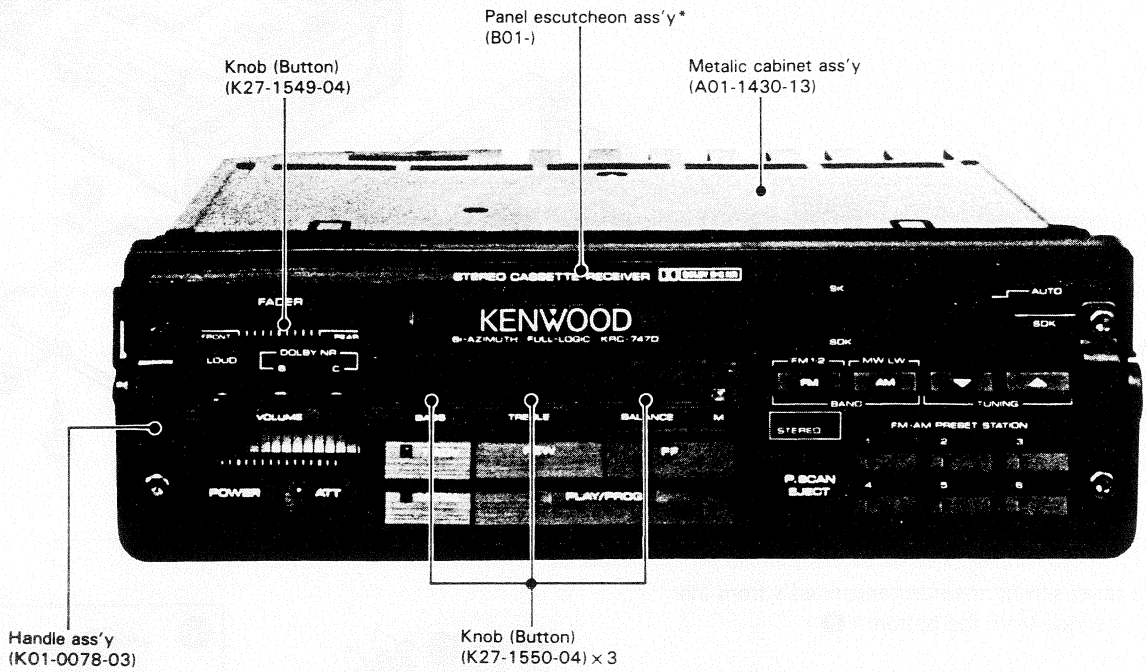
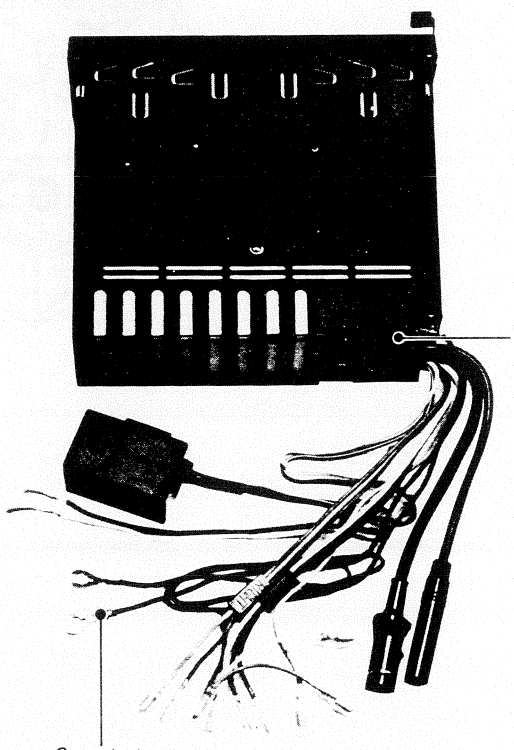
B51-1958-00(T)1305



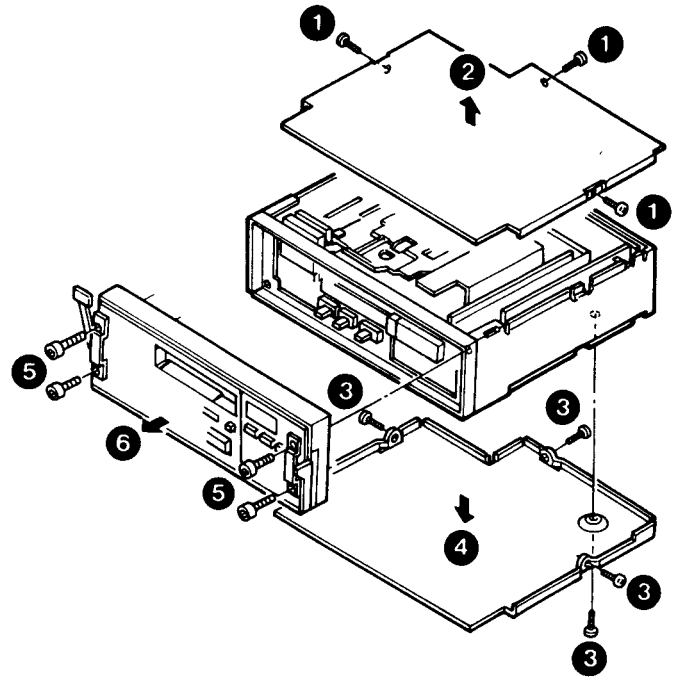


* Refer to Parts List on page 17.

DISASSEMBLY FOR REPAIR

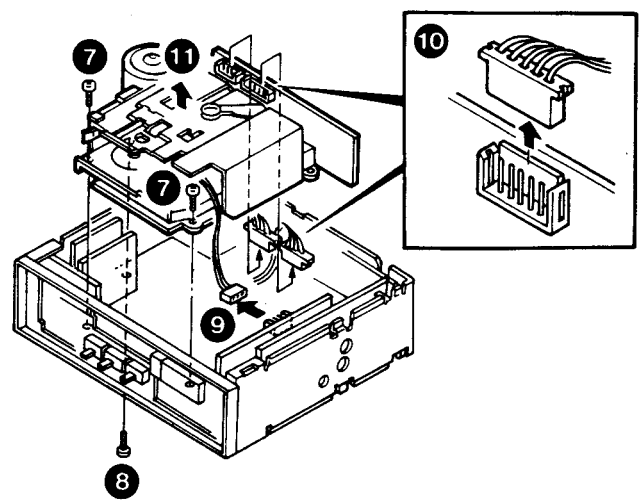
1. Remove the 3 screws and remove the top plate (❶ , ❷) also bottom plate (❸ , ❹).

2. Remove the 4 screws and pull out the front panel (❺ , ❻).



3. Remove the 2 screws fixing the mechanism ass'y from the top (❼) and 1 screw from the bottom (❽).

4. Pull out the connector from the pc boards (❾ , ❿) and take the mechanism ass'y out (⓫).

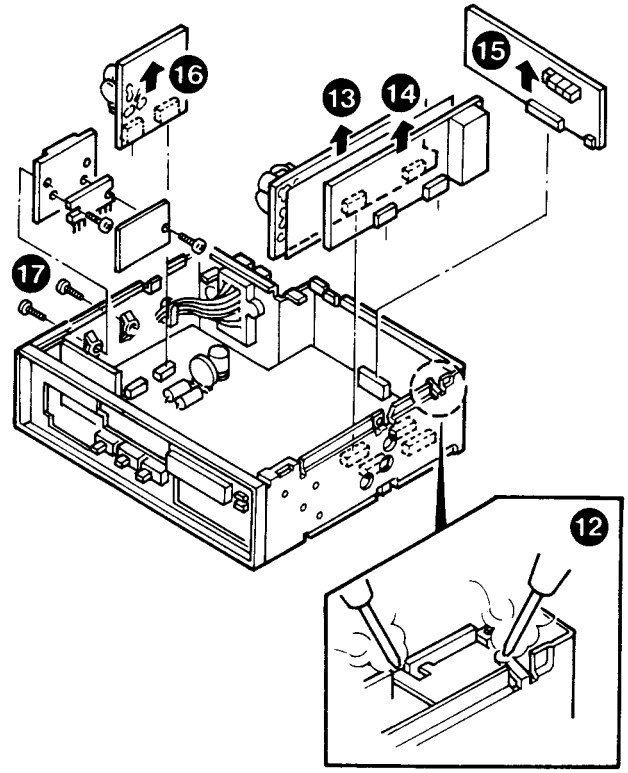


DISASSEMBLY FOR REPAIR

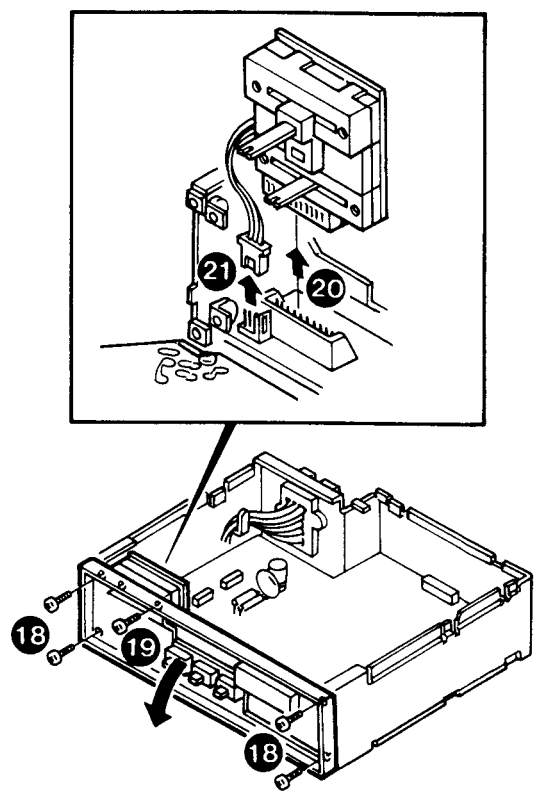
5. Unsolder the metal frame of the pc board (⑫).

6. Pull out the pc board (⑬ , ⑭ , ⑮ , ⑯).

7. Remove the 2 screws fixing the heat sink (⑰).



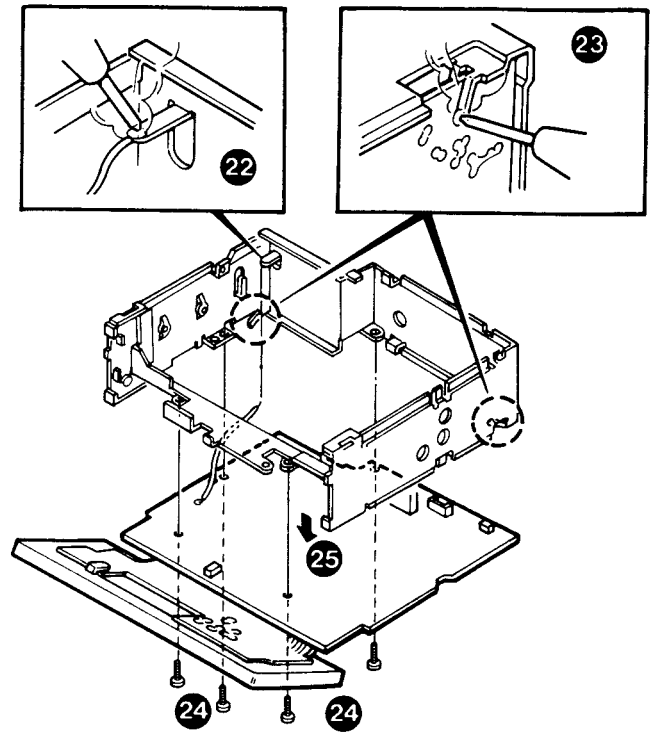
8. Remove the 4 screws of panel chassis (⑱) and remove 2 screws of FADER volume (⑲) then pull out pc board (⑳ , ㉑).



DISASSEMBLY FOR REPAIR

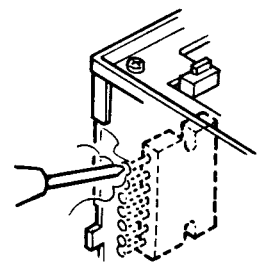
9. Unsolder the GND wire (㉒) and main pc board (㉓).

10. Remove the 4 screws (㉔) and take out the pc board (㉕).

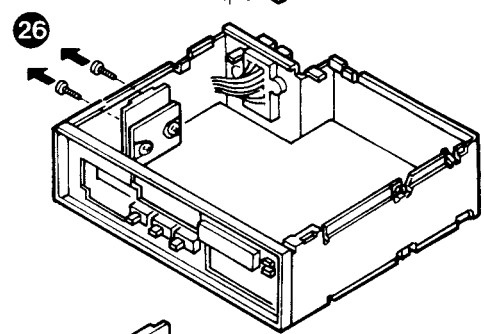


REPLACEMENT POWER IC

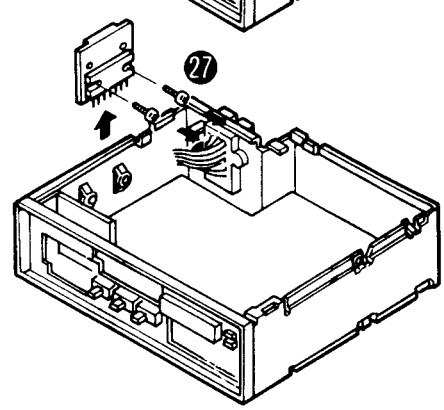
1. Unsolder the power IC's terminals.



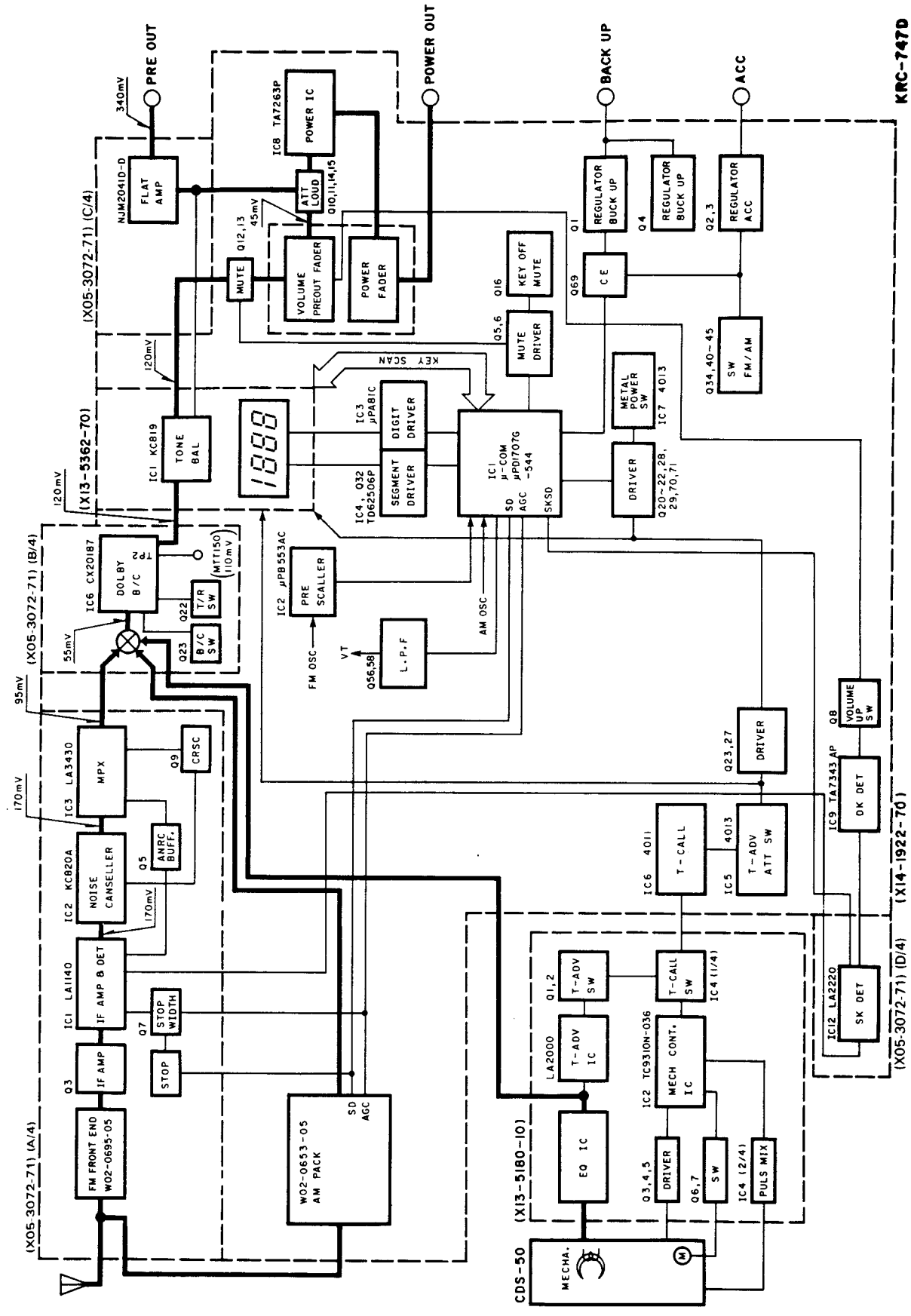
2. Remove the 2 screws (㉖) fixing the heat sink.



3. Pull out the IC then remove the 2 screws (㉗).



BLOCK DIAGRAM



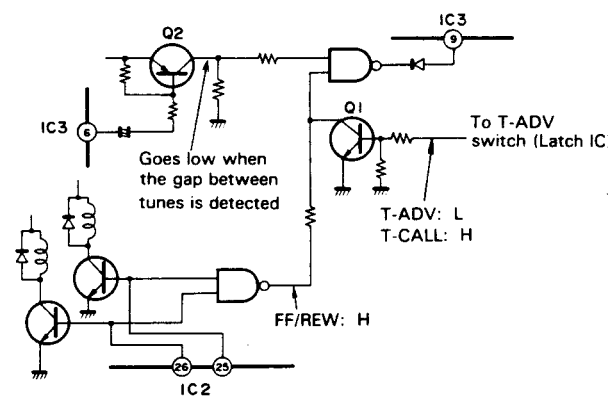
CIRCUIT DESCRIPTION

DESCRIPTION OF ELEMENTS

TUNER UNIT (X05-3072-71)

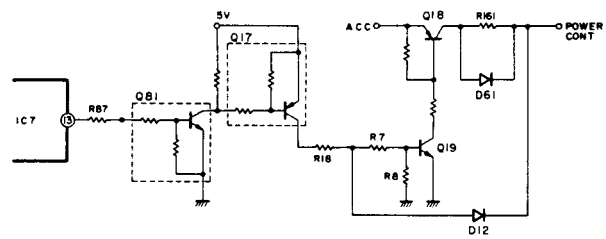
Elements	Use & Function	Operation, Condition & Interchangeability
Q3	FM IF amp.	
Q5	ANRC anti-fluctuation circuit	
Q6	FM STOP inverting circuit	
Q7	FM SEEK/STOP changover circuit	Turned ON is STOP mode: C17 is discharged so that the STOP range is widened. Turned ON is searching: C16 and C17 become in series and the combined capacitance is reduced so that the range becomes narrow.
Q9	CRSC Tr.	Turns to MONO when the multipass distortion is excessive.
Q20	TAPE/RADIO chageover	ON: RADIO (Switched to RADIO when pin 42 goes low.)
Q23	Dolby B/C changeover	ON: Dolby C (Dolby C is activated when pin 1 goes low.)
IC1	IF amp. and detector	
IC2	Noise canseller	
IC3	MPX	
IC6	T-CAL	
IC7	T-ADV, ATT switch	

SUB CIRCUIT UNIT (X13-5180-10)

Elements	Use & Function	Operation, Condition & Interchangeability
Q1	T-ADV inhibit circuit	ON: Inhibition
Q2	T-ADV detect inverting circuit	Goes high in detecting 
Q3 ~ 5	Solenoid driver	ON: Solenoid warks
Q6, 7	Motor switch	When cassette tape is loaded motor turns.
Q8	MUTE driver	
D1	Pulse composition diode	
D2	Level-shift diode	
D3	Discharge-prevention diode	
D4	Motor drive voltage compositon	
D5 ~ 7	Counter electromotive force prevention diode	
D8	Program solenoide withstand diode	
IC1	TONE control BALANCE	
IC2		
IC3		
IC4		

CIRCUIT DESCRIPTION

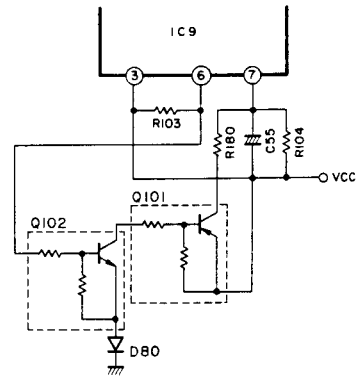
CONTROL UNIT (X14-1922-70)

Elements	Use & Function	Operation, Condition & Interchangeability
Q1	Power supply regulator circuit	
Q2, 3	Power supply regulator circuit (Darlington connection)	
Q4	Power supply regulator circuit	
Q5, 6	MUTE driver	
Q7	MUTE changeover circuit	Turned OFF in T-CALL mode
Q8	Vol. up control circuit during SDK.	
Q9	FF/REW signal timelug control circuit	
Q10, 11	Attenuator switching circuit	ATT ON: High
Q12, 13	MUTE circuit	
Q14, 15	LOUD switching circuit	
Q16	Key OFF mute circuit	Turned ON when key-off
Q17, 81	Power ON/OFF invert circuit	
Q18, 19	Power control circuit	Power control protection circuit  D12 protects Q18 during power control short-circuits by turning the bace of Q19 to "LOW" and the Q18 to "OFF".
Q20	Dolby C LED driver	
Q21	Dolby B LED driver	
Q22	LOUD LED driver	
Q23	ATT LED driver	
Q24	REVERSE LED driver	
Q25	FOWARD LED driver	
Q26	TAPE +B switching circuit	
Q27	T-ADV LED driver	
Q28	METAL LED driver	
Q29	STEREO LED driver	
Q32	Segment-high driver	
Q33	TAPE+B switching circuit	

CIRCUIT DESCRIPTION

Elements	Use & Function	Operation, Condition & Interchangeability
Q34	AM +B ON/OFF switching circuit	
Q35	SD invert circuit	
Q36	P. SCAN OFF switching circuit	Turned ON in tape mode
Q38	AGC cut control circuit	Turned ON in SEEK mode
Q39	P. SCAN control circuit	Short-circuits the matrix when P. SCAN is turned ON.
Q40	FM port invert circuit	
Q41	MW port invert circuit	
Q42	AUTO (LW) port invert circuit	
Q43	FM +B ON/OFF switching circuit	
Q44	AM +B switching circuit	
Q45	FM +B switching circuit	
Q46	NR ON/OFF switching circuit	
Q49	TAPE/RADIO invert circuit	
Q51	Dolby B/C invert driver	
Q52, 73	MW/LW band selector	MW: H LW:L
Q53	AM AGC cut control unit	
Q54, 82, 83	Active L.P.F switching circuit	
Q56, 57	Active L.P.F circuit	To FM and MW mode
Q58, 59	Active L.P.F circuit	To LW mode
Q61	METAL OFF switching circuit	Turned ON in tape mode
Q62	AM SD invert circuit	
Q63	P. SCAN control switching circuit	
Q69	CE control circuit during ACC key-off	
Q70, 71	SK LED driver	
Q74	SK/SD invert circuit	
Q75~77	Radio interuption circuit for DK reception during "TAPE"	
Q78, 79	AND circuit for SKD and DK	
Q80	Microcomputer mute terminal inhibition.	
Q84	Segment-high driver	
Q85, 86, 88	AND circuit for TAPE +B and TPAE MUTE	
Q89	Inhibition of microcomputer mute inhibition	
Q90	FM signal detector	
Q91	LW inhibition circuit during FM	
Q92, 94	ST START LEVEL control circuit	
Q95	"PACK IN" or "EJECT MUTE" inhibition circuit for SDK SW "ON" during DK.	
Q96	Power amp. IC MUTE control circuit	
Q97	SK signal buffer	
Q98	Circuit to cut COM +B (ACC 9 V) during power SW OFF.	
Q100	POWER SW Key invert circuit	

CIRCUIT DESCRIPTION

Elements	Use & Function	Operation, Condition & Interchangeability
Q101, 102	DK detector level switching circuit	DK detector level switching circuit  Q102 and Q101 turn to "OFF" during DK IN and the DK detection sensitivity is raised once IC9's pin number 6 is on "L". Q102 and Q101 turn to "ON" during DK OUT and the DK detection sensitivity is lowered once pin number 6 is on "H".

ADJUSTMENT

Set the controls and switches as follows.

BALANCE	:center position	LOUD	:OFF	ATT	:OFF
FADER	:center position	T・ADV	:OFF	AUTO	:OFF
BASS	:center position	METAL	:OFF		
TREBLE	:center position	DOLBY NR	:OFF		

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER(RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dB(ANT input)	Connect a DC voltmeter to TP1. (X05-3072)	FM 98.1MHz	T1 (X05-3072)	0V	(a)
2	SEEK STOP LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 20dB(ANT input)	—	FM SEEK: ON 98.1MHz	VR1 (X05-3072)	STOP	
3	ANRC	(C) 98.1MHz 1kHz,±40kHz dev Selector:L or R Pilot:±6kHz dev 30dB(ANT input)	(B)	FM 98.1MHz	VR2 (X05-3072)	Separation 5dB	
4	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 60dB→No input	(B)	FM 98.1MHz	VR3 (X05-3072)	Output Noise level -28dB (When not add any signal to ANT terminal)	
5	SEPARATION	(C) 98.1MHz 1kHz,±40kHz dev Selector:L or R Pilot:±6kHz dev 60dB(ANT input)	(B)	FM 98.1MHz	VR4 (X05-3072)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
6	PILOT CANCELLER	(C) 98.1MHz 0 dev Pilot:±6kHz dev 60dB(ANT input)	(B)	FM 98.1MHz	VR5 (X05-3072)	Minimum output	
SDK SECTION							
(1)	DK VCO	DK SW OFF BK SW OFF	Connect a frequency counter to TP2. (X14-1922)	FM 98.1MHz	VR5 (X14-1922)	250Hz ± 2Hz	(g)
(2)	SK LAMP	(E) 98.1MHz 1kHz, SK SW ON BK SW ON 10dB(ANT input)	(B)	FM 98.1MHz	VR7 (X14-1922)	Adiust so that the SK LAMP just lights.	
(3)	DK LEVEL	(E) 98.1MHz 1kHz,±40kHz dev SK,5.33% mod DK,30% BK,60% mod 60dB(ANT input)	(B)	FM 98.1MHz VOLUME:0	VR4 (X14-1922)	600mV	
AM SECTION							
< 1 >	STOP LEVEL	(D) 990kHz 400Hz,30% mod 35dB(ANT input)	—	AM AUTO:ON 990kHz	VR6 (X14-1922)	STOP	
CASSETTE DECK SECTION							
[1]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to TP2(L) and (R) (X05-3072)	TAPE PLAY	VR1 (L) VR2 (R) (X13-5180)	110mV	(k)
[2]	AZIMUTH	MTT-114(10kHz)	(B)	TAPE PLAY	Head Azimuth Screw	Adjust so that the output levels of the forward and reverse left and right channels are all maximum and identical.	(l)

REGLAGES

Régler les controles et les boutons comme suit.

BALANCE	:position centre	LOUD	:OFF	ATT	:OFF
FADER	:position centre	T・ADV	:OFF	AUTO	:OFF
BASS	:position centre	METAL	:OFF		
TREBLE	:position centre	DOLBY NR	:OFF		

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR	(A) 98,1MHz 0 dév 60dB(Entrée ANT)	Connecter un voltmètre CC entre à TP1. (X05-3072)	FM 98,1MHz	T1 (X05-3072)	0V	(a)
2	NIVEAU DE CHERCHER D'ARRET	(A) 98,1MHz 1kHz.±40kHz dév 20dB(Entrée ANT)	—	FM CHERCHER: ON 98,1MHz	VR1 (X05-3072)	ARRET	
3	ANRC	(C) 98,1MHz 1kHz.±40kHz dév Selecteur: L ou R Pilote:±6kHz dév 30dB(Entrée ANT)	(B)	FM 98,1MHz	VR2 (X05-3072)	Séparation 5dB	
4	NIVEAU DE SOFT MUTE	(A) 98,1MHz 1kHz.±40kHz dév 60dB→(Entrée No)	(B)	FM 98,1MHz	VR3 (X05-3072)	Bruit de niveau de sortie -28dB (Sous non correspondance d' antenne.)	
5	SEPARATION	(C) 98,1MHz 1kHz.±40kHz dév Selecteur:L ou R Pilote:±6kHz dév 60dB(Entrée ANT)	(B)	FM 98,1MHz	VR4 (X05-3072)	Diaphone minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
6	SUPPRESSION DE SIGNAL PILOTE	(C) 98,1MHz 0 dév Pilote:±6kHz dév 60dB(Entrée ANT)	(B)	FM 98,1MHz	VR5 (X05-3072)	Sortie minimale	
SECTION SDK							
(1)	DK VCO	OFF DK SW OFF BK SW	Connecter un compteur de Frèquence à TP2. (X14-1922)	FM 98,1MHz	VR5 (X14-1922)	250Hz ± 2Hz	(g)
(2)	SK LAMP	(E) 98,1MHz 1kHz ON SK SW ON BK SW 10dB(Entrée ANT)	(B)	FM 98,1MHz	VR7 (X14-1922)	Régler de façon que le voyant accordè s'allnme.	
(3)	NIVEAU DE DK	(E) 98,1MHz 1kHz.±40kHz dév SK.5,33% mod DK.30% BK.60% mod 60dB(Entrée ANT)	(B)	FM 98,1MHz VOLUME:0	VR4 (X14-1922)	600mV	
SECTION MA							
<1>	NIVEAU D'ARRET	(D) 990kHz 400Hz. 30% mod 35dB(Entrée ANT)	—	AM AUTO:ON 990kHz	VR6 (X14-1922)	ARRET	
SECTION DU MAGNETPHONE							
[1]	NIVEAU DE LECTURE	MTT-150	Connecter un voltmètre CA les TP2(G) et (D). (X05-3072)	Lecture bande	VR1 (G) VR2 (D) (X13-5180)	110mV	(k)
[2]	AZIMUTH	MTT-114 (10kHz)	(B)	Lecture bande	Vis d'azimut de tête	Régler en sorte que les niveaux de sortie des canaux de l'avance de gauche et de droite et des canaux marchearrière de gauche et de droite soient tous au maximum et identiques.	(l)

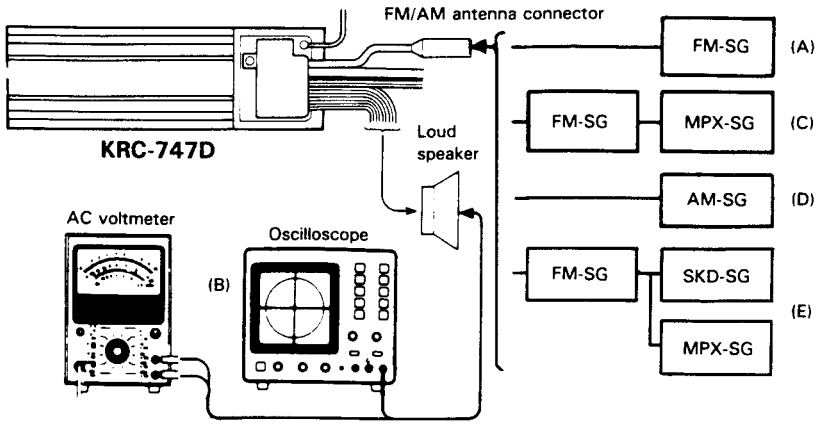
ABGLEICH

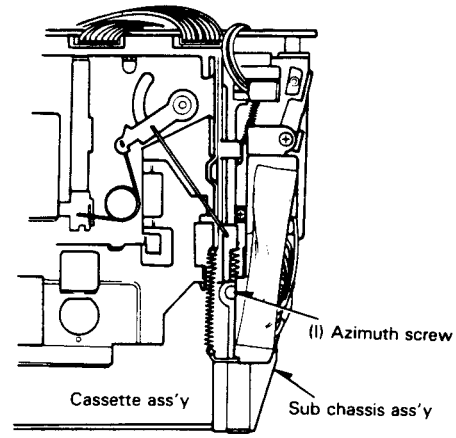
Die Regler und Knöpfe wire folgt einstellen.

BALANCE	:Mittelage	LOUD	:OFF	ATT	:OFF
FADER	:Mittelage	T・ADV	:OFF	AUTO	:OFF
BASS	:Mittelage	METAL	:OFF		
TREBLE	:Mittelage	DOLBY NR	:OFF		

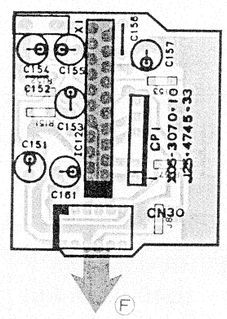
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER(RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRIMINATOR	(A) 98,1MHz 0 Hub 60dB(ANT-Eingang)	Einen Gleich-spannungsmesser zwischen zu TP1 anschließen. (X05-3072)	FM 98,1MHz	T1 (X05-3072)	0V	(a)
2	SUCHEN HALT PEGEL	(A) 98,1MHz 1kHz.±40kHz Hub 20dB(ANT-Eingang)	—	FM SUCHEN: ON 98,1MHz	VR1 (X05-3072)	HALT	
3	ANRC	(C) 98,1MHz 1kHz.±40kHz Hub Wahler:L oder R Pilot:±6kHz Hub 30dB(ANT-Eingang)	(B)	FM 98,1MHz	VR2 (X05-3072)	Trennung 5dB	
4	SOFT MUTE PRGEL	(A) 98,1MHz 1kHz.40kHz Hub 60dB→No Eingang	(B)	FM 98,1MHz	VR3 (X05-3072)	Ausgang Geräusch Pegel -28dB (Wenn Antenna stecker Nicht anschließen.)	
5	STEREO KANAL TRENNUNG	(C) 98,1MHz 1kHz.±40kHz Hub Wahler:L oder R Pilot:±6kHz Hub 60dB(ANT-Eingang)	(B)	FM 98,1MHz	VR4 (X05-3072)	Minimales Übersprechen. Einen Ausgleichrege lung kann notwendig sein, falls links zu rechts und rechts zu links Trennungen ungleich sind.	
6	PILOT LÖSCHER	(C) 98,1MHz 0 Hub Pilot:6kHz Hub 60dB(ANT-Eingang)	(B)	FM 98,1MHz	VR5 (X05-3072)	Minimal Ausgang	
SDK-ABTEILUNG							
(1)	DK VCO	DK SW OFF BK SW OFF	Einen Frequenz messer zu TP2 anschließe. (X14-1922)	FM 98,1MHz	VR5 (X14-1922)	250Hz ± 2Hz	(g)
(2)	SK LAMP	(E) 98,1MHz 1kHz. SK SW ON BK SW ON 10dB(ANT-Eingang)	(B)	FM 98,1MHz	VR7 (X14-1922)	So einstellen, daß die abgestimte Anzeigelampe gerade aufleuchtet.	
(3)	DK PEGEL	(E) 98,1MHz 1kHz.±40kHz Hub SK.5,33% mod DK.30% BK.60% mod 60dB(ANT-Eingang)	(B)	FM 98,1MHz VOLUME:0	VR4 (X14-1922)	600mV	
MW-ABTEILUNG							
<1>	HALT PEGEL	(D) 990kHz 400Hz. 30% mod 35dB(ANT-Eingang)	—	MW AUTO:ON 990kHz	VR6 (X14-1922)	HALT	
CASSETTEN-DECK-ABTEILUNG							
[1]	WIDERGABE PEGEL	MTT-150	Einen Wechsel-spannungsmesser zu TP2(L) und (R) anschließen. (X05-3072)	Bandwiedergabe	VR1 (L) VR2 (R) (X13-5180)	110mV	(k)
[2]	AZIMUTH	MTT-114(10kHz)	(B)	Bandwiedergabe	Kopfazimutschraube	So einstellen,daß die Ausgangspegel der linken und rechten Kanäle bei Rück lauf maximal und übereinstimmend sind.	(g)

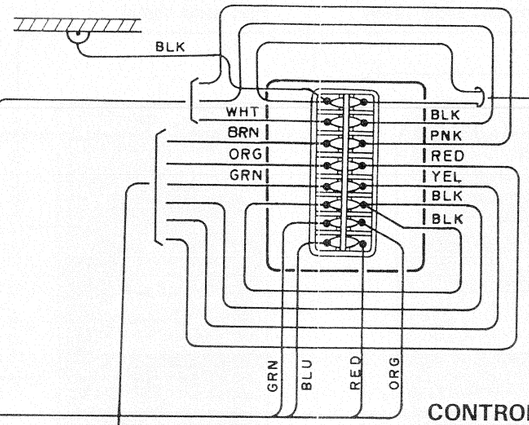
ADJUSTMENT/REGLAGES/ABGLEICH



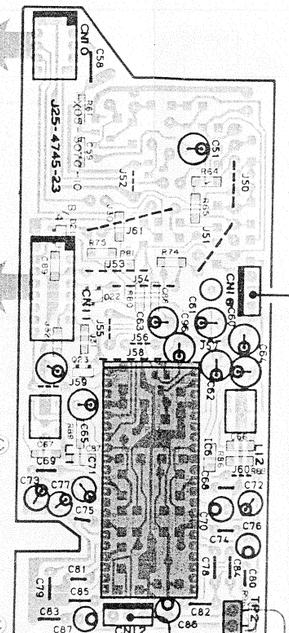


PC BOARD

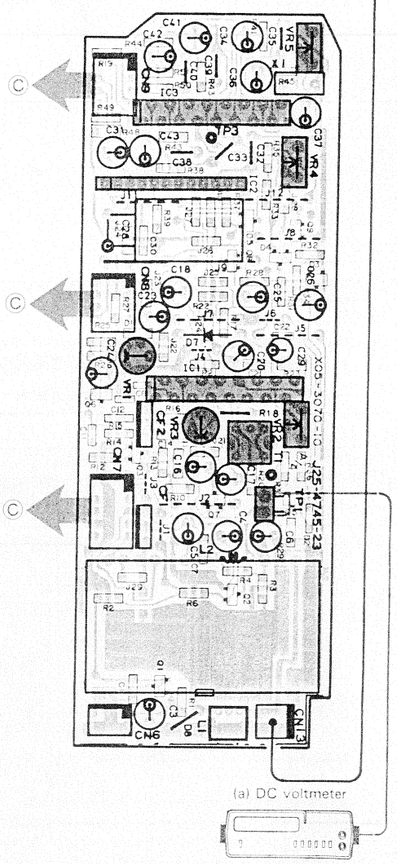




TUNER UNIT (X05-3072-71)
(B/4) Component side view



TUNER UNIT (X05-3072-71)
(A/4) Component side view



PC BOARD

TUNER UNIT (X05-3072-71)
(B/4) Component side view

TUNER UNIT (X05-3072-71)
(A/4) Component side view

SUB UNIT (X13-5180-10)
Foil side view

CONTROL UNIT (X14-1922-70)
(A/2) Component side view

CASSETTE MECHANISM ASS'Y
(D40-0345-05)

SUB UNIT (X13-5362-70)
Foil side view

(k) AC voltmeter

(a) DC voltmeter

BLK
PNK
RED
YEL
BLK
BLK

GRN
BLU
RED
ORG

YEL
BRN
ORG
BLU

VIO
BLK
ORG
PNK
BLK

To Mecha

GRN
WHT
BRN
RED

To Mecha

YEL

SOL
SOL
SOL

ORG
ORG
BLU
BLU
YEL

BLK
BLK
WHT
PNK
PNK
RED
WHT
BLK
PNK

PL

J25-4848-02 ½

X13-5180-00

IC1

1	4.2 V
2	2.6 V
3	1 V
5	1.6 V
7	7.8 V
11	1.6 V
13	11 V
15	4.2 V
16	2.6 V

X05-3072-71

IC1

1 ~ 7	3.9 V
8	7.8 V

IC6

1, 2	9.2 V	13, 14	0 V
3	4.8 V	15	4.8 V
4	9.3 V	16, 17	0 V
5, 6, 8	4.8 V	18	4.8 V
9	5.2 V	19	0 V
10	4.8 V	20, 21	5 V
11, 12	5 V	41	4.8 V

IC1

1 ~ 3	2.5 V
6	0.7 V
7 ~ 9	5 V
12	8.8 V
16	0.1 V

IC2

1	4.4 V
4	5 V
5	6.1 V
6	4.9 V
7	3.5 V
8	8.8 V
9	0 V
10	1 V
12	4.4 V

IC3

1	8.8 V
2, 3	3 V
4	2.5 V
5, 6	4 V
10 ~ 12	2.5 V
13	1 V
14 ~ 16	2.5 V

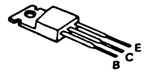
Q3

E	0.8 V
C	8.2 V
B	1.4 V

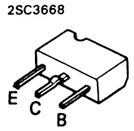
Refer to the schematic diagram for the values of resistors and capacitors.

DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

2SB1015LB



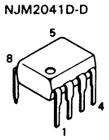
2SA1428
2SA874F
2SC3668



DTA124EK 2SD1328
DTA144EK 2SD1757K
DTC114TK
DTC124EK
DTC144EK
2SA1036K
2SC2411K
2SC2412K
2SC2413K

DTA143XK
DTC114YK

NJM2041D-D



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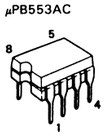

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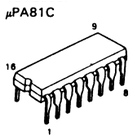
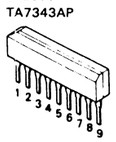
μPA81C



LA2000
TA7343AP



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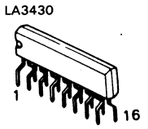
LA3430



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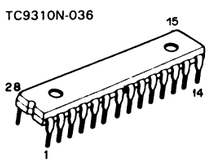

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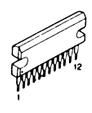
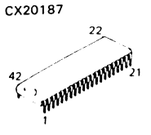
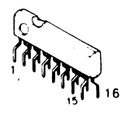


CX20187



BA3406L



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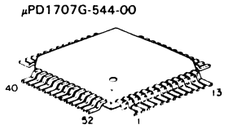
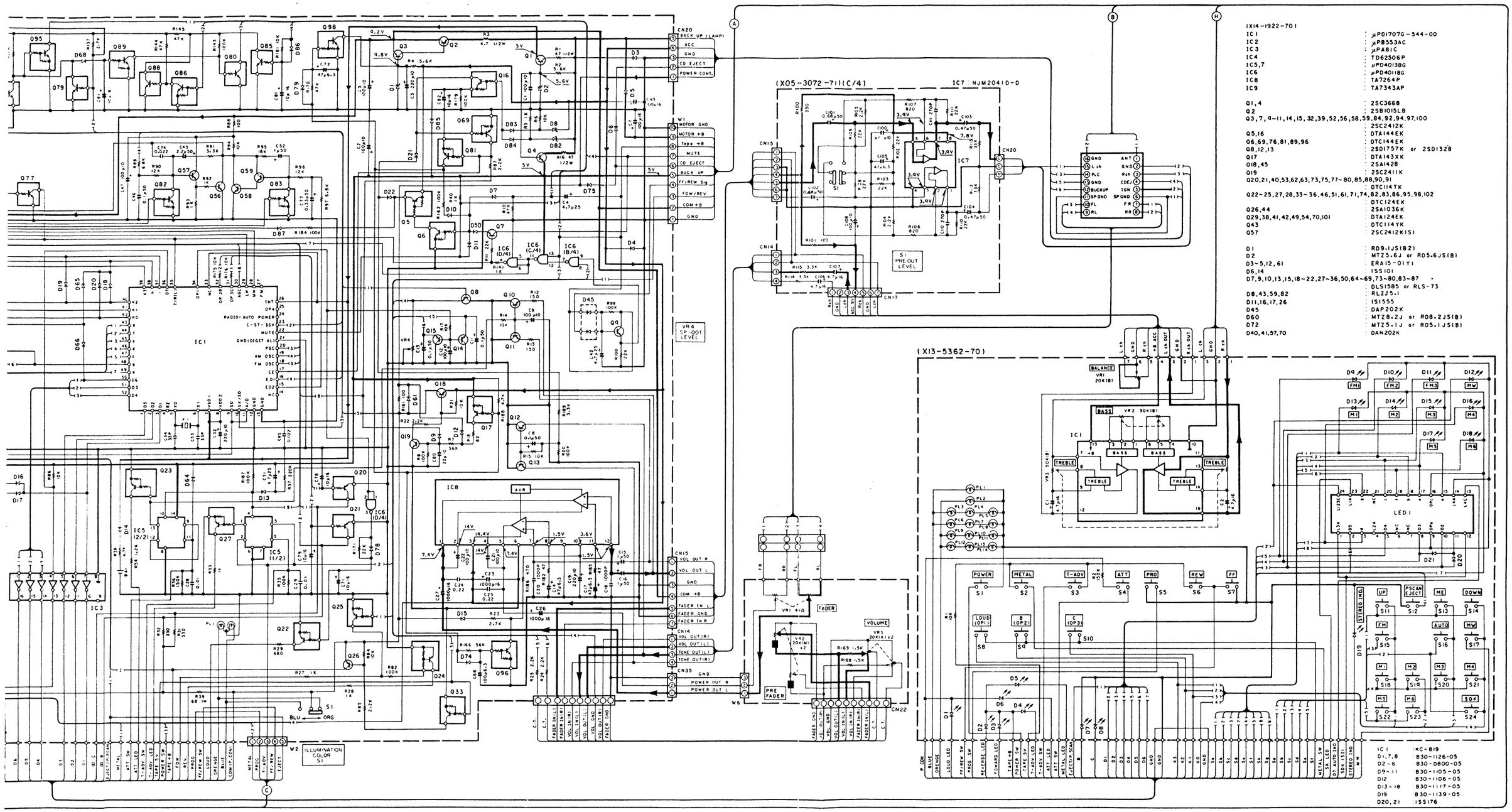


KC-819



DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

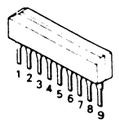
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parentheses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geraten u.U. geringfugig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

KRC-747D(K)(2/2)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

LA2000
TA7343AP



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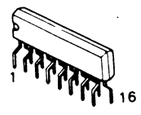
LA3430



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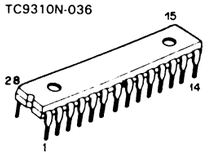
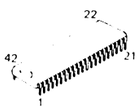


TA7264P

CX20187



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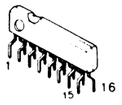

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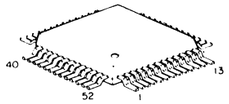

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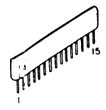
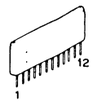
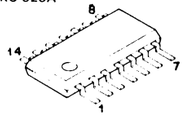


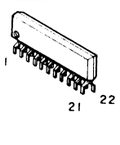
μPD4011BG
μPD4013BG



KC-820A

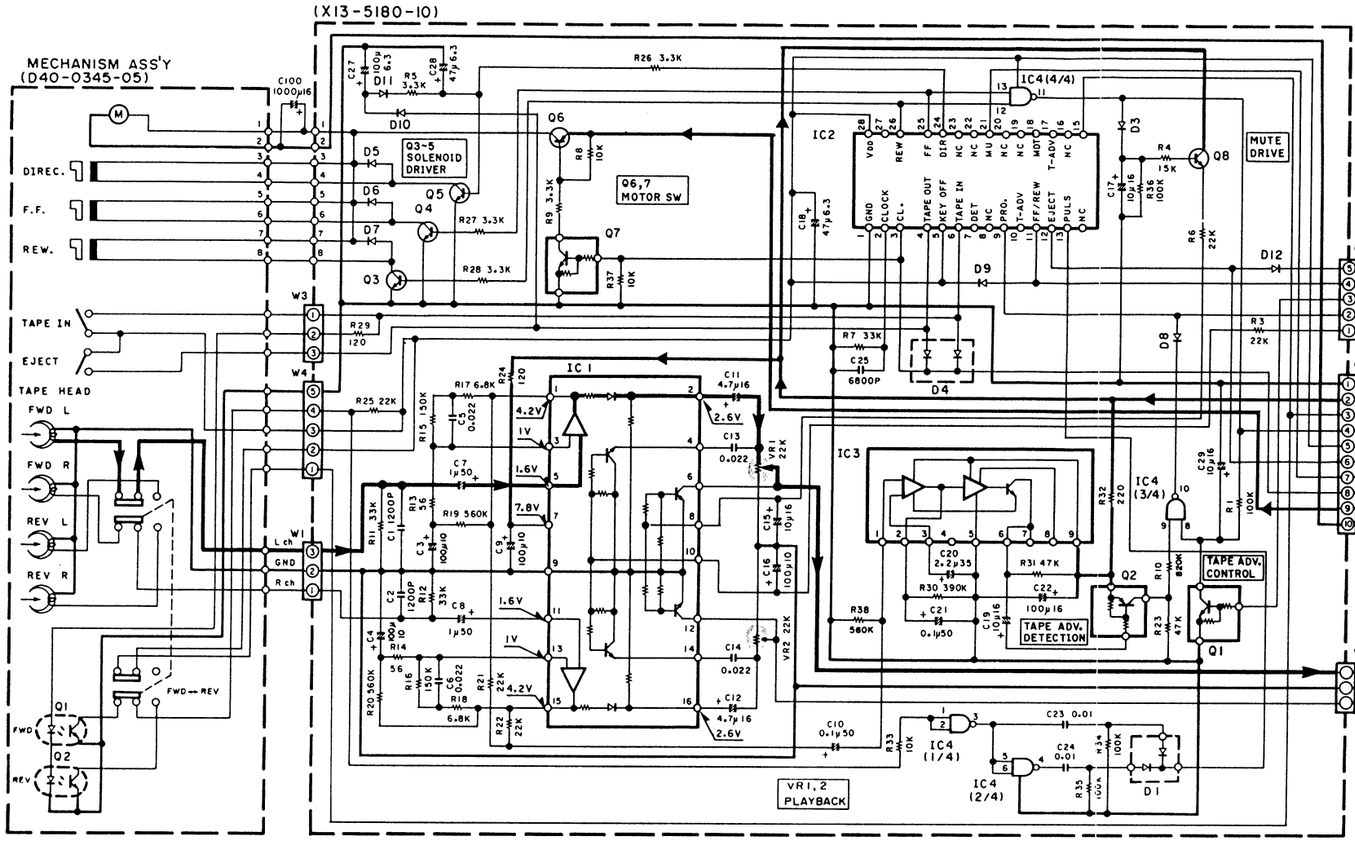


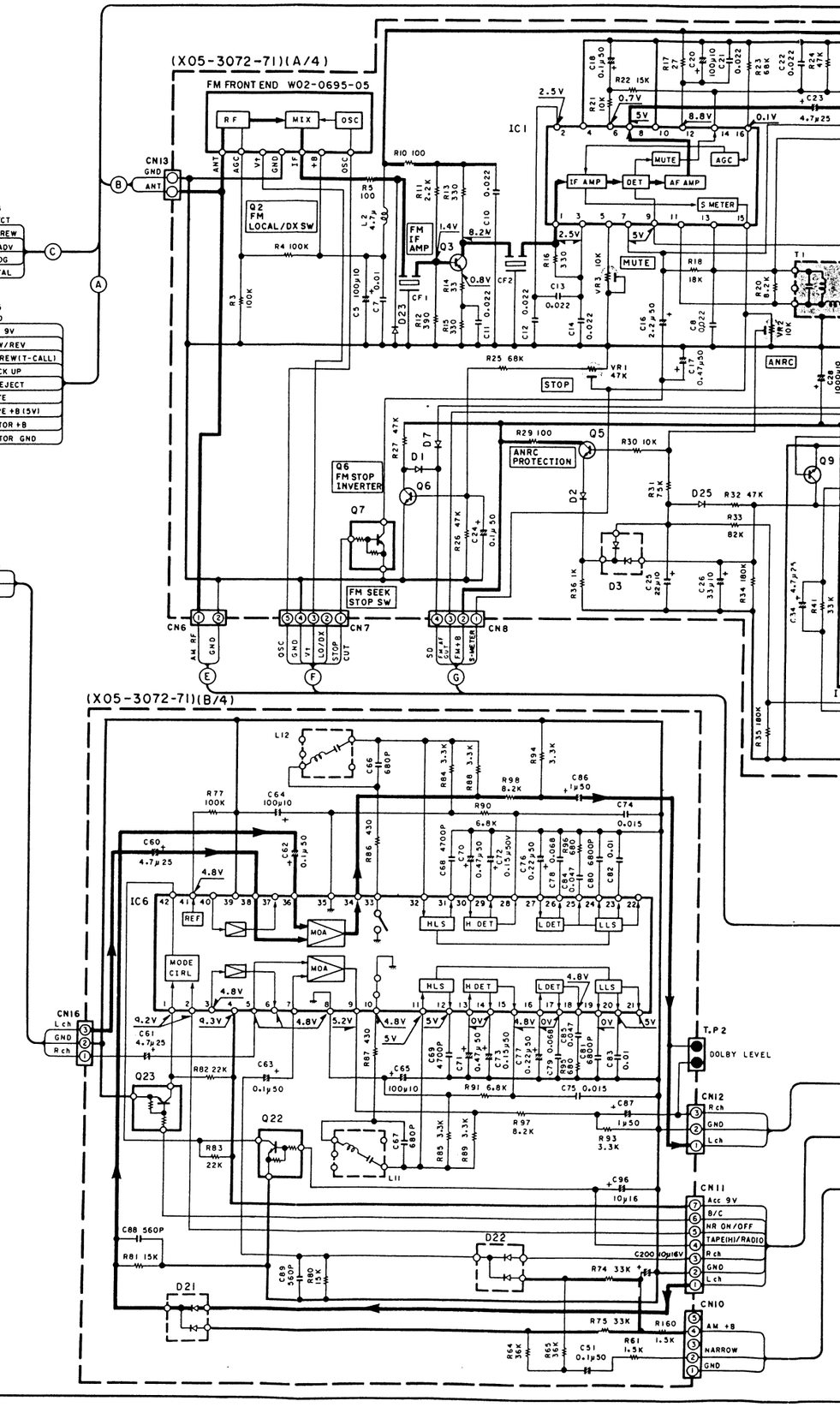
LA2220



KRC-747D

KENWOOD





(X13-5180-10)
IC1 : BA3406L
IC2 : TC9310N-036
IC3 : LA2000
IC4 : μPD4011BG

Q1,7 : DTC124EK
Q2 : DTA124EK
Q3~5, 8 : 2SC2412K
Q6 : 2SA874F

D1, 4 : DAN202K
D12 : 1SS176
D3, 8~11 : RLS-73
D5~7 : ERA15-01Y1

(X05-3072-71) (A/4)
IC1 : LA1140
IC2 : KC-820A
IC3 : LA3430

Q3 : 2SC2413K
Q5, 6, 9 : 2SC2412K
Q7, 8 : DTC124EK

D1, 2, 25 : RLS-73
D3 : DAN202K
D7 : 1S1555

(X05-3072-71) (B/4)
IC6 : CX20087

Q22, 23 : DTC124EK

D21, 22 : DAN202K
D23, 24 : RLS-73

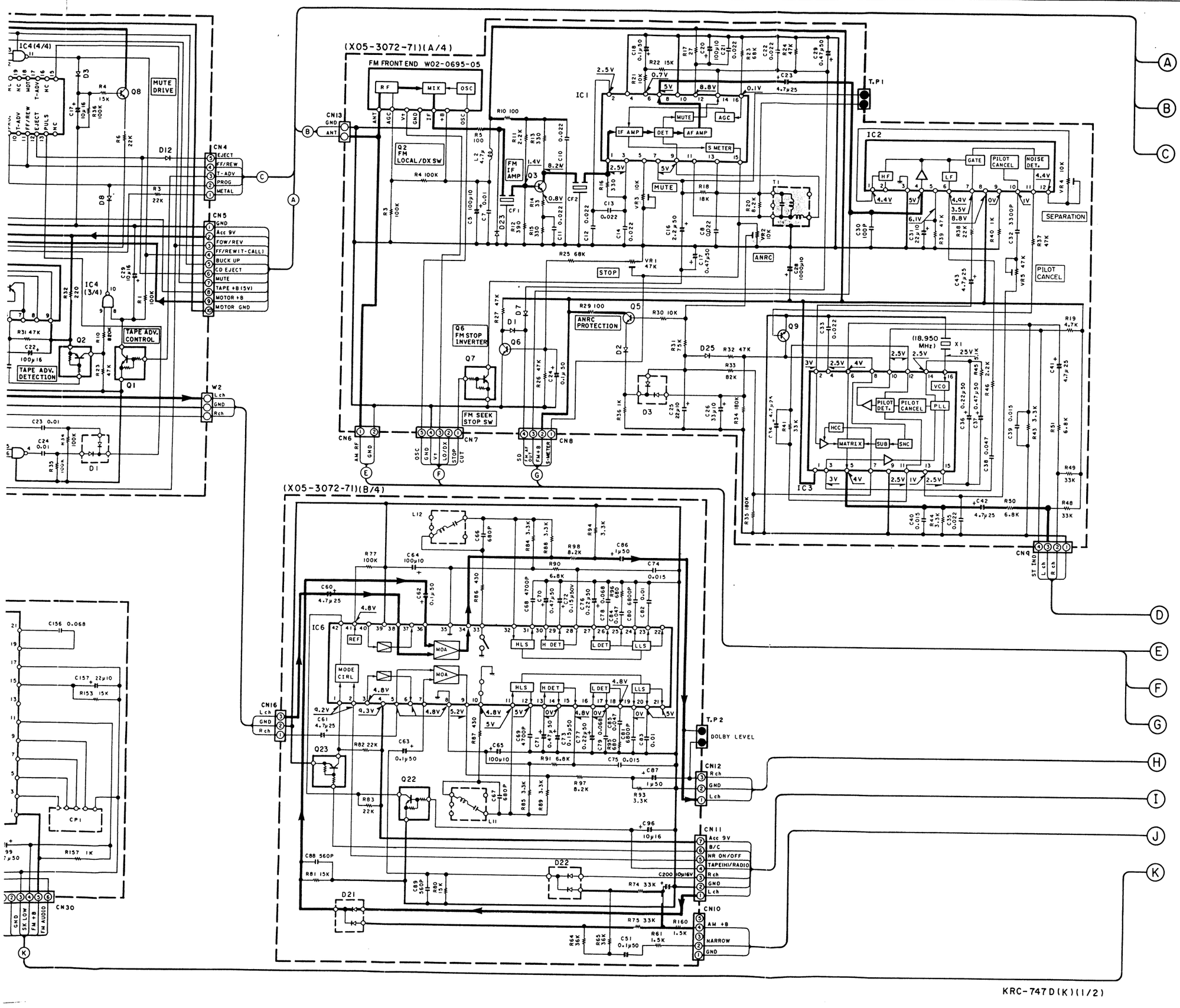
(X05-3072-71) (D/4)
IC12 : LA2220

DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

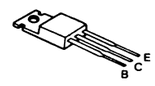
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

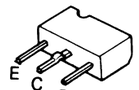


KRC-747D(K)(1/2)

2SB1015LB



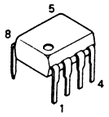
2SA1428
2SA874F
2SC3668



DTA124EK
DTA144EK
DTC114TK
DTC124EK
DTC144EK
2SA1036K
2SC2411K
2SC2412K
2SC2413K
2SD1328
2SD1757K

DTA143XK
DTC114YK

NJM2041D-D



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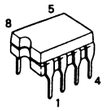
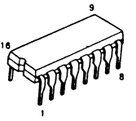


TD62506P
μPA81C



LA2000
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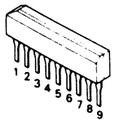
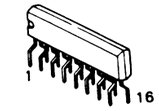
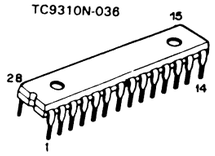


LA1140
LA3430

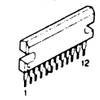


TC9310N-036

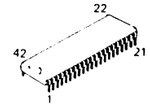


DTA124EK
DTA144EK
DTC114TK
DTC124EK
DTC144EK
2SA1036K
2SC2411K
2SC2412K
2SC2413K
2SD1328
2SD1757K

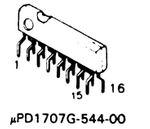
TA7264P



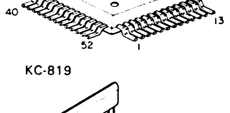
CX20187



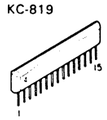
BA3406L



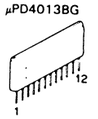
μPD1707G-544-00



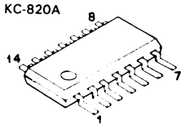
KC-819



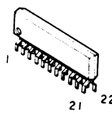
μPD4011BG
μPD4013BG



KC-820A

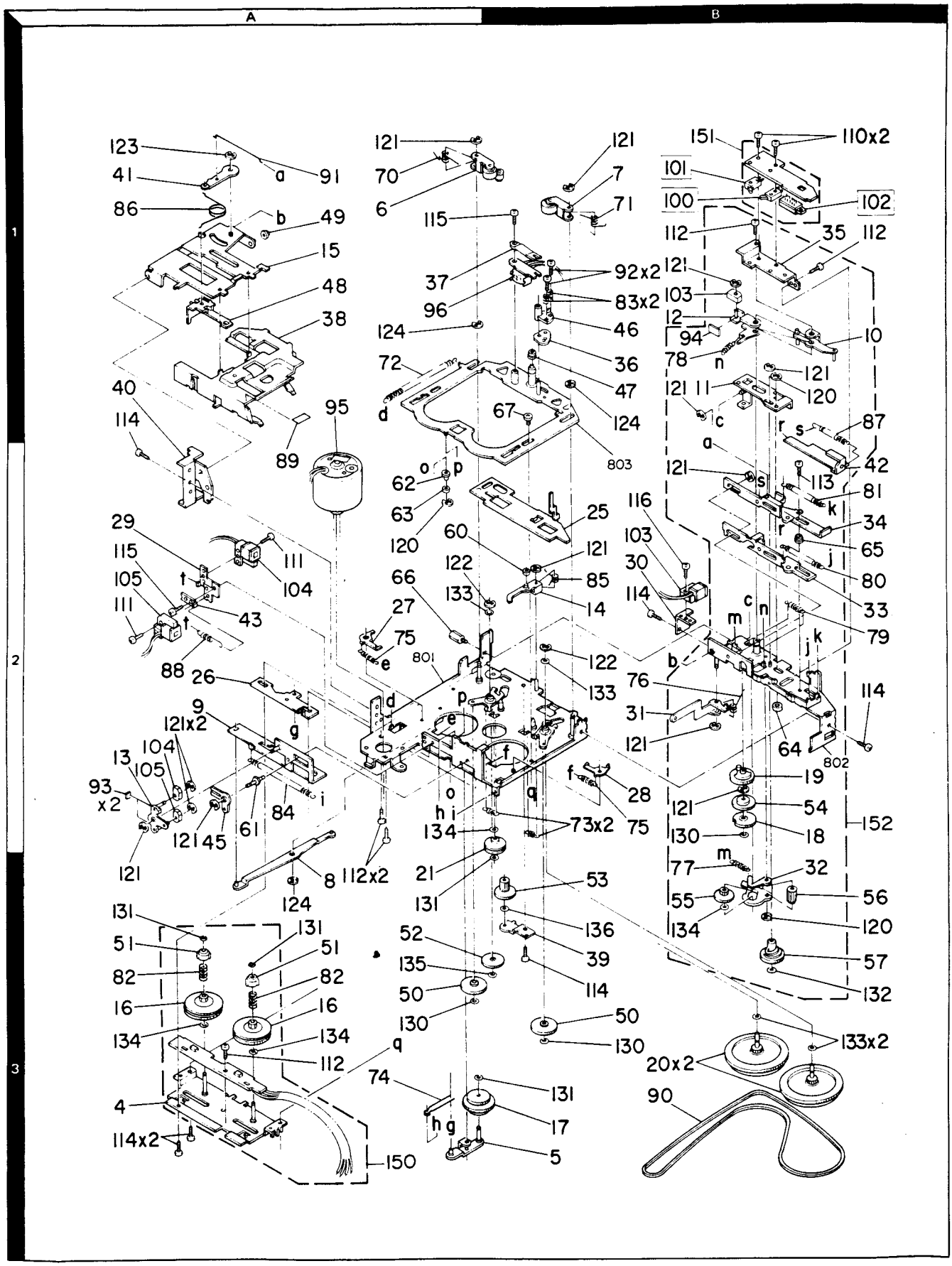


LA2220



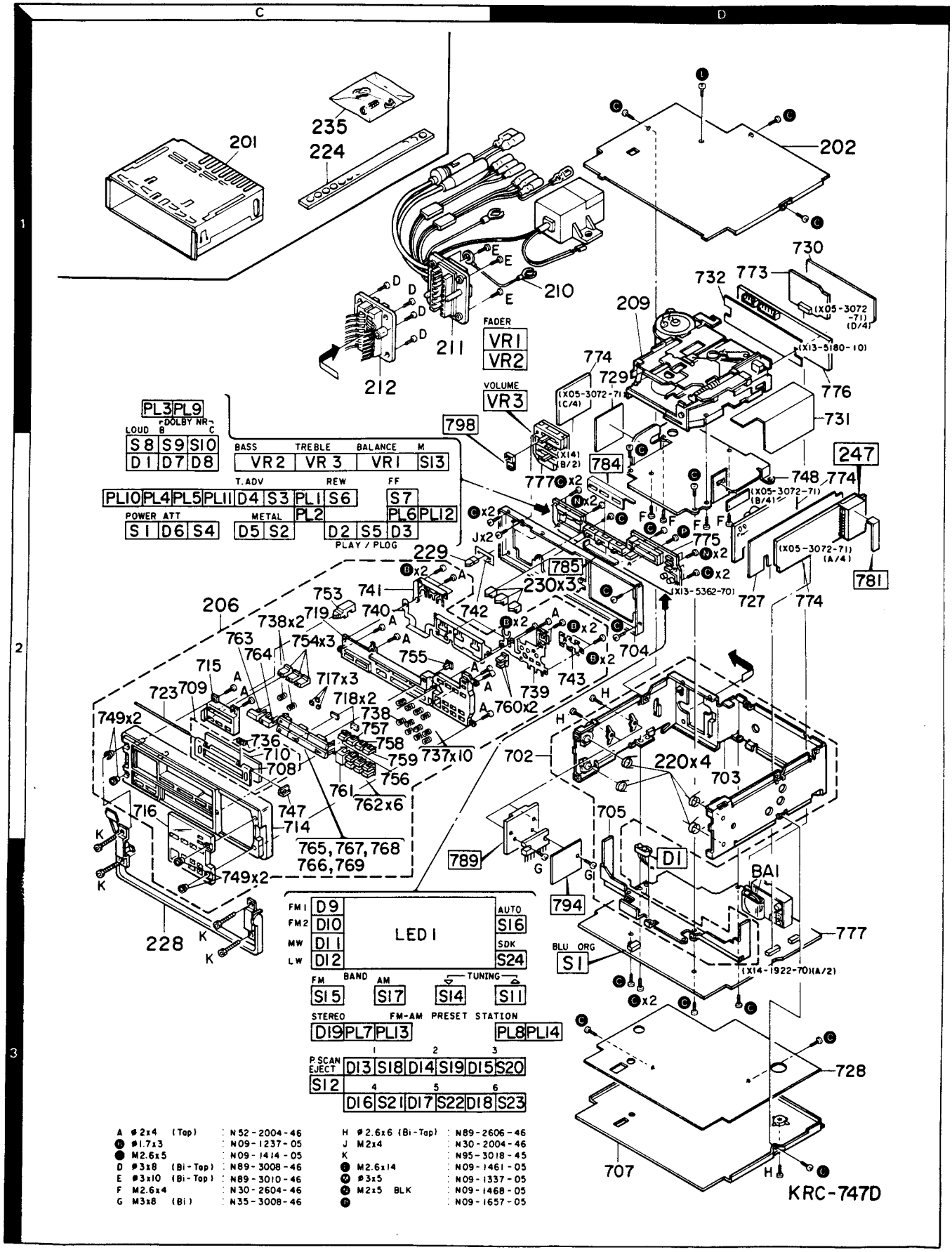
KRC-747D
KENWOOD

EXPLODED VIEW (MECHANISM)



Parts with exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (MAIN)



A	ø2x4 (Tap)	N52-2004-46	H	ø2.6x6 (Bi-Tap)	N89-2606-46
B	ø1.7x3	N09-1237-05	J	M2x4	N30-2004-46
C	M2.6x5	N09-1414-05	K		N95-3018-45
D	ø3x8 (Bi-Tap)	N89-3008-46	L	M2.6x14	N09-1461-05
E	ø3x10 (Bi-Tap)	N89-3010-46	M	ø3x5	N09-1337-05
F	M2.6x4	N30-2604-46	N	M2x5 BLK	N09-1468-05
G	M3x8 (Bi)	N35-3008-46	P		N09-1657-05

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KRC-747D						
201	1C		A01-1430-13	METALLIC CABINET ASSY		
202	1D	*	A52-0085-13	TOP COVER		
206	2C	*	B01-0324-02	PANEL ESCUTCHEON ASSY	E	
206	2C	*	B01-0335-02	PANEL ESCUTCHEON ASSY	T	
-			B46-0100-00	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-6136-00	INSTRUCTION MANUAL (ENG,FREN)	E	
-		*	B50-6317-00	INSTRUCTION MANUAL (GER,ITA)	E	
-		*	B50-6342-00	INSTRUCTION MANUAL (ENGLISH)	T	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
C100			CE04DW1C102M	ELECTRO 1000UF 16WV		
209	1D		D40-0345-05	CASSETTE MECHANISM ASSY		
210	1D		E30-0891-05	GROUND WIRE		
211	1C		E30-1370-05	CORD WITH CONNECTOR (OUTSIDE)		
212	1C	*	E30-1491-05	CORD WITH CONNECTOR (INSIDE)		
220	2D		G01-1436-14	TORSION COIL SPRING (CHASSIS)		
-		*	H01-7139-04	ITEM CARTON CASE	E	
-		*	H01-7270-04	ITEM CARTON CASE	T	
-		*	H03-0811-04	OUTER CARTON CASE	E	
-		*	H03-0831-04	OUTER CARTON CASE	T	
-			H10-1818-03	POLYSTYRENE FOAMED FIXTURE		
-			H10-1840-03	POLYSTYRENE FOAMED FIXTURE		
-			H19-0012-03	PACKING FIXTURE		
-			H25-0173-04	PROTECTION BAG (300X350X0.05)		
-			H25-0226-04	PROTECTION BAG (180X300X0.05)		
-			H25-0234-04	PROTECTION BAG		
224	1C		J54-0059-04	STAY		
-			J61-0067-05	WIRE BAND		
228	3C		K01-0078-03	HANDLE ASSY		
229	2C	*	K27-1549-04	KNOB (BUTTON)		
230	2D	*	K27-1550-04	KNOB (BUTTON)		
235	1C		N99-0099-05	SCREW SET		
B	2C,2D		N09-1237-05	TAPTITE SCREW (1.7X3)		
C	2C,2D		N09-1414-05	TAPTITE SCREW (M2.6X5)		
L	1D		N09-1461-05	STEPPED SCREW (M2.6X14)		
M	1C		N09-1337-05	TAPTITE SCREW (3X5)		
P	2D	*	N09-1657-05	SEMS (TAPTITE SCREW)		
BA1	3D		W09-0028-15	BATTERY		
TUNER UNIT (X05-3072-71)						
C5			CE04DW1A101M	ELECTRO 100UF 10WV		
C7			C93-0012-05	CYLND CHIP C 0.01UF M		
C8			CK73FB1E223K	CHIP C 0.022UF K		
C10 -14			CK73FB1E223K	CHIP C 0.022UF K		
C16		*	CE04DW1H2R2M	ELECTRO 2.2UF 50WV		
C17			CE04DW1HR47M	ELECTRO 0.47UF 50WV		
C18		*	CE04DW1H0R1M	ELECTRO 0.1UF 50WV		
C20			CE04DW1A101M	ELECTRO 100UF 10WV		
C21 ,22			CK73FB1E223K	CHIP C 0.022UF K		

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C23			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C24		*	CE04DW1H0R1M	ELECTRO 0.1UF 50WV		
C25			CE04DW1C100M	ELECTRO 10UF 16WV		
C26			CE04DW1A330M	ELECTRO 33UF 10WV		
C28			CE04DW1A102M	ELECTRO 1000UF 10WV		
C29			CE04CW1HR47M	ELECTRO 0.47UF 50WV		
C30			CK41DB1H101K	CYLND CHIP C 100PF K		
C31		*	CE04DW1A220M	ELECTRO 22UF 10WV		
C32			CF92V1H332J	MF 3300PF J		
C33			CF92V1H223J	MF 0.022UF J		
C34			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C35			CF92V1H223J	MF 0.022UF J		
C36		*	CE04DW1HR22M	ELECTRO 0.22UF 50WV		
C37			CE04DW1HR47M	ELECTRO 0.47UF 50WV		
C38			CF92V1H473J	MF 0.047UF J		
C39 ,40			CF92V1H153J	MF 0.015UF J		
C41 -43			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C51		*	CE04DW1H0R1M	ELECTRO 0.1UF 50WV		
C60 ,61			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C62 ,63		*	CE04DW1H0R1M	ELECTRO 0.1UF 50WV		
C64 ,65			CE04DW1A101M	ELECTRO 100UF 10WV		
C66 ,67			CK41DB1H681K	CYLND CHIP C 680PF K		
C68 ,69			CQ92M1H472J	MYLAR 4700PF J		
C70 ,71			CE04CW1HR47M	ELECTRO 0.47UF 50WV		
C72 ,73			CE04CW1HR15M	ELECTRO 0.15UF 50WV		
C74 ,75			CQ92M1H153J	MYLAR 0.015UF J		
C76 ,77			CE04CW1HR22M	ELECTRO 0.22UF 50WV		
C78 ,79			CF92V1H683J	MF 0.068UF J		
C80 ,81			CQ92M1H682J	MYLAR 6800PF J		
C82 ,83			CQ92M1H103J	MYLAR 0.010UF J		
C84 ,85			CF92V1H473J	MF 0.047UF J		
C86 ,87			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C88 ,89			CK41DB1H561K	CYLND CHIP C 560PF K		
C96			CE04DW1C100M	ELECTRO 10UF 16WV		
C100			CE04DW1A471M	ELECTRO 470UF 10WV		
C101,102			CE04CW1HR68M	ELECTRO 0.68UF 50WV		
C103,104			CE04CW1HR47M	ELECTRO 0.47UF 50WV		
C105			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C106,107			CE04CW1C4R7M	ELECTRO 4.7UF 16WV		
C108			CE04CW1A101M	ELECTRO 100UF 10WV		
C110,111			CK41DB1H271K	CYLND CHIP C 270PF K		
C151			CE04DW1C100M	ELECTRO 10UF 16WV		
C152			CF92V1H473J	MF 0.047UF J		
C153			CE04DW1HR47M	ELECTRO 0.47UF 50WV		
C154		*	CE04DW1HR33M	ELECTRO 0.33UF 50WV		
C155			CE04DW1C100M	ELECTRO 10UF 16WV		
C156			CF92V1H683J	MF 0.068UF J		
C157		*	CE04DW1A220M	ELECTRO 22UF 10WV		
C161			CE04DW1C100M	ELECTRO 10UF 16WV		
C190			CE04CW1C100M	ELECTRO 10UF 16WV		
C199			C90-0484-05	ELECTRO 0.47UF 50WV		
C200			CE04DW1C100M	ELECTRO 10UF 16WV		
CF1 ,2			L72-0135-05	CERAMIC FILTER		
L2			L40-4791-16	SMALL FIXED INDUCTOR(4.7UH,K)		

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L11 ,12			L39-0118-05	TRAP COIL		
T1		*	L30-0449-05	FM IFT		
X1 ,2			L78-0208-05	RESONATOR (18.950KHZ)		
-			R92-0338-05	CLYND CHIP R		
CP1		*	R90-0468-05	COMPOSITE ELEMENTS		
R2			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R3 ,4			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R5			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R10			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R11			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R12			RD41DB2B391J	CYLND CHIP R 390 J 1/8W		
R13			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R14			RD41DB2B330J	CYLND CHIP R 33 J 1/8W		
R15 ,16			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R17			RD41DB2B270J	CYLND CHIP R 27 J 1/8W		
R19			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R20			RD41DB2B822J	CYLND CHIP R 8.2K J 1/8W		
R21			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R22			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R23			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R24			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R25			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R26 ,27			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R29			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R30			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R31			RD41DB2B753J	CYLND CHIP R 75K J 1/8W		
R32			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R33			RD41DB2B823J	CYLND CHIP R 82K J 1/8W		
R34			RD41DB2B184J	CYLND CHIP R 180K J 1/8W		
R35		*	RD41DB2B124J	CYLND CHIP R 120K J 1/8W		
R36			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R37			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R38			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R39			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R40			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R41			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R43 ,44			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R45			RD41DB2B512J	CYLND CHIP R 5.1K J 1/8W		
R46			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R48 ,49			RK73FB2A333J	CHIP R 33K J 1/10W		
R50 ,51			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R59			RD41DB2B152J	CYLND CHIP R 1.5K J 1/8W		
R61			RD41DB2B152J	CYLND CHIP R 1.5K J 1/8W		
R64 ,65		*	RD41DB2B363J	CYLND CHIP R 36K J 1/8W		
R74 ,75			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R77			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R80 ,81			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R82 ,83			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R84 ,85			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R86 ,87			RD41DB2B431J	CYLND CHIP R 430 J 1/8W		
R88 ,89			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R90 ,91			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R93 ,94			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R95 ,96			RD41DB2B681J	CYLND CHIP R 680 J 1/8W		

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R97 ,98			RD41DB2B822J	CYLND CHIP R 8.2K J 1/8W		
R100			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R101			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R102,103			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R104,105			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R106,107			RD41DB2B821J	CYLND CHIP R 820 J 1/8W		
R108-111			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R112,113			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R114,115			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R151			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R152			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R153			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R157			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R160			RD41DB2B152J	CYLND CHIP R 1.5K J 1/8W		
VR1			R12-3083-05	TRIMMING POT.(47K) SEEK STOP		
VR2			R12-3100-05	TRIMMING POT.(10K) ANRC		
VR3			R12-3071-05	TRIMMING POT.(10K) SOFT MUTE		
VR4			R12-3100-05	TRIMMING POT.(10K) SEPARATION		
VR5			R12-3103-05	TRIMMING POT.(47K) PILOT CANC		
S1	1D	*	S31-2100-05	SLIDE SWITCH		
D1 ,2			RLS-73	DIODE		
D3			DAN202K	DIODE		
D7			1S1555	DIODE		
D21 ,22			DAN202K	DIODE		
D23			RLS-73	DIODE		
D25			RLS-73	DIODE		
IC1			LA1140	IC(FM IF/DETECTION)		
IC2			KC-820A	IC(NOISE CANCELLER)		
IC3			LA3430	IC(FM MPX)		
IC6			CX20187	IC(DOLBY B/C NOISE REDUCT X2)		
IC7			NJM2041D-D	IC(OP AMP X2)		
IC12			LA2220	IC(SK SIGNAL DETECT)		
Q3			2SC2413K	TRANSISTOR		
Q5 ,6			2SC2412K	TRANSISTOR		
Q7			DTC124EK	DIGITAL TRANSISTOR		
Q9			2SC2412K	TRANSISTOR		
Q22 ,23			DTC124EK	DIGITAL TRANSISTOR		
-		*	W02-0695-05	FM FRONT-END ASSY		
SUB UNIT (X13-5180-10)						
C1 ,2		*	CK73EB1H122K	CHIP C 1200PF K		
C3 ,4			CE04DW1A101M	ELECTRO 100UF 10WV		
C5 ,6			CQ92M1H223J	MYLAR 0.022UF J		
C7 ,8			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C9			CE04CW1A101M	ELECTRO 100UF 10WV		
C10			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C11 ,12			CE04CW1C4R7M	ELECTRO 4.7UF 16WV		
C13 ,14			CF92V1H223J	MF 0.022UF J		
C15			CE04CW1C100M	ELECTRO 10UF 16WV		
C16			CE04CW1A101M	ELECTRO 100UF 10WV		
C17			CE04CW1C100M	ELECTRO 10UF 16WV		
C18			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C19			CE04CW1C100M	ELECTRO 10UF 16WV		
C20			CE04CW1V2R2M	ELECTRO 2.2UF 35WV		

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C21			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C22			C90-1263-05	ELECTRO 100UF 16WV		
C23 ,24			CQ92M1H103J	MYLAR 0.010UF J		
C25			CF92V1H682J	MF 6800PF J		
C27			CE04CW0J101M	ELECTRO 100UF 6.3WV		
C28			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C29			CE04CW1C100M	ELECTRO 10UF 16WV		
J15 -26			R92-0338-05	CLYND CHIP R		
R3			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R4			RD41DB2B153J	CYLND CHIP R 15K J 1/8W		
R5			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R7			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R8			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R9			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R10			RD41DB2B824J	CYLND CHIP R 820K J 1/8W		
R11 ,12			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R13 ,14			RD41DB2B560J	CYLND CHIP R 56 J 1/8W		
R15 ,16			RD41DB2B154J	CYLND CHIP R 150K J 1/8W		
R17 ,18			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R19 ,20			RD41DB2B564J	CYLND CHIP R 560K J 1/8W		
R21 ,22			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R23			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R25			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R26 -28			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R29			RD41DB2B121J	CYLND CHIP R 120 J 1/8W		
R30			RD41DB2B394J	CYLND CHIP R 390K J 1/8W		
R31			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R32			RD41DB2B221J	CYLND CHIP R 220 J 1/8W		
R33			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R34 -36			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R37			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R38			RD41DB2B564J	CYLND CHIP R 560K J 1/8W		
VR1 ,2			R12-3101-05	TRIMMING POT. (22K)PLAYBACK		
D1			DAN202K	DIODE		
D3			RLS-73	DIODE		
D4			DAN202K	DIODE		
D5 -7			ERA15-01Y1	DIODE		
D8 -11			RLS-73	DIODE		
D12			1SS176	DIODE		
IC1			BA3406L	IC(PREAMP FOR TAPE EQ X2)		
IC2			TC9310N-036	IC(MICROPROCESSOR)		
IC3			LA2000	IC(AUDIO LEVEL SENSOR)		
IC4			UPD4011BG	IC(NAND X4)		
Q1			DTC124EK	DIGITAL TRANSISTOR		
Q2			DTA124EK	DIGITAL TRANSISTOR		
Q3 -5			2SC2412K	TRANSISTOR		
Q6			2SA874F	TRANSISTOR		
Q7			DTC124EK	DIGITAL TRANSISTOR		
Q8			2SC2412K	TRANSISTOR		
SUB UNIT (X13-5362-70)						
D1			B30-1126-05	LED		
D2 -6			B30-0800-05	LED(SLH-34MC3)		
D7 ,8			B30-1126-05	LED		

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D9 -11			B30-1105-05	LED(PG5551KY)		
D12			B30-1106-05	LED(AY5551K)		
D13 -18			B30-1117-05	LED(BR4524K,RED)		
D19		＊	B30-1139-05	LED		
LED1			B38-0049-05	LED DISPLAY ASSY		
PL1			B30-1115-05	LAMP (16V 0.04A)		
PL2			B30-1107-05	LAMP (16V 40MA)		
PL3 -8			B30-1116-05	LAMP (6V 0.065A)		
PL9 -14			B30-1118-05	LAMP (6V 0.065A)		
C1 ,2			CE04CW1C4R7M	ELECTRO 4.7UF 16WV		
N	2D		N09-1468-05	TAPTITE SCREW (M2X5)		
VR1			R13-3033-05	POTENTIOMETER(20K) BALANCE		
VR2 ,3			R13-4035-05	POTENTIOMETER(50K) TONE		
S1 -24	2C,3C		S40-1086-05	PUSH SWITCH		
D20 ,21			1SS176	DIODE		
IC1			KC-819	IC(TONE AMP X2)		
CONTROL UNIT (X14-1922-70)						
PL1	3D		B30-1114-05	LAMP (16V 0.04A)		
C1 ,2			CE04CW1A101M	ELECTRO 100UF 10WV		
C3			CE04DW1A221M	ELECTRO 220UF 10WV		
C4			C90-0482-05	ELECTRO 4.7UF 25WV		
C5			CE04CW1A101M	ELECTRO 100UF 10WV		
C7			C90-1263-05	ELECTRO 100UF 16WV		
C8			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C9			CE04CW1A101M	ELECTRO 100UF 10WV		
C11			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C12			CE04CW1A101M	ELECTRO 100UF 10WV		
C13			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C14			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C15 ,16			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C17			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C18			CK41DB1H102K	CYLND CHIP C 1000PF K		
C19			CE04DW1A221M	ELECTRO 220UF 10WV		
C20			CK41DB1H102K	CYLND CHIP C 1000PF K		
C21 ,22			CE04DW1A101M	ELECTRO 100UF 10WV		
C23			CE04DW1C102M	ELECTRO 1000UF 16WV		
C24 ,25			CF92V1H224J	MF 0.22UF J		
C26 ,27			CE04DW1C102M	ELECTRO 1000UF 16WV		
C28 ,29			C93-0012-05	CYLND CHIP C 0.01UF M		
C31			C90-0482-05	ELECTRO 4.7UF 25WV		
C32			CE04DW1A221M	ELECTRO 220UF 10WV		
C33 ,34			CC73FCH1H330J	CHIP C 33PF J		
C35 ,36			CE04DW1A221M	ELECTRO 220UF 10WV		
C37			CE04DW1A101M	ELECTRO 100UF 10WV		
C38			C93-0012-05	CYLND CHIP C 0.01UF M		
C40			CE04DW1A471M	ELECTRO 470UF 10WV		
C41			C91-0085-05	CERAMIC 0.022UF N		
C42			C90-0482-05	ELECTRO 4.7UF 25WV		
C45			CE04CW1H2R2M	ELECTRO 2.2UF 50WV		
C46			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C47			CE04DW1A101M	ELECTRO 100UF 10WV		

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C50 ,51			CE04CW1E4R7M	ELECTRO 4.7UF 25WV		
C52			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C53			C90-0498-05	ELECTRO 3.3UF 25WV		
C54			C90-0824-05	ELECTRO 1UF 50WV		
C55			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C56			CF92V1H224J	MF 0.22UF J		
C58			CE04DW1A101M	ELECTRO 100UF 10WV		
C59			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C61			CE04DW1C100M	ELECTRO 10UF 16WV		
C62			C90-0824-05	ELECTRO 1UF 50WV		
C63			CE04DW1A330M	ELECTRO 33UF 10WV		
C65 -67			C90-0482-05	ELECTRO 4.7UF 25WV		
C68			CE04CW0J101M	ELECTRO 100UF 6.3WV		
C69 ,70			C93-0012-05	CYLND CHIP C 0.01UF M		
C71			CE04CW1C100M	ELECTRO 10UF 16WV		
C72			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C74			CK73EB1E223K	CHIP C 0.022UF K		
C75			CK41DB1H102K	CYLND CHIP C 1000PF K		
C76			CC73FCH1H330J	CHIP C 33PF J		
C77			CE04CW1HR33M	ELECTRO 0.33UF 50WV		
C78 ,79			CE04CW1C100M	ELECTRO 10UF 16WV		
C80			CE04CW1A220M	ELECTRO 22UF 10WV		
C81 ,82			CE04CW1C100M	ELECTRO 10UF 16WV		
C83			C90-1263-05	ELECTRO 100UF 16WV		
C84		*	C93-0013-05	CERAMIC 22000PF 25WV		
C85 ,86			CK73FB1E223K	CHIP C 0.022UF K		
X1			L77-0585-05	CRYSTAL RESONATOR(4.5MHZ)		
-			R92-0338-05	CLYND CHIP R		
CP1			R90-0438-05	MULTI-COMP 47KX7 J 1/6W		
R1			RD14DB2H470J	SMALL-RD 47 J 1/2W		
R3			RD14DB2H4R7J	SMALL-RD 4.7 J 1/2W		
R4			RD41DB2B562J	CYLND CHIP R 5.6K J 1/8W		
R5 ,6			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R7			RD41DB2B563J	CYLND CHIP R 56K J 1/8W		
R8			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R10			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R11			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R12 ,13			RD41DB2B151J	CYLND CHIP R 150 J 1/8W		
R14 ,15			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R16			RD14DB2H470J	SMALL-RD 47 J 1/2W		
R17			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R18			RD41DB2B820J	CYLND CHIP R 82 J 1/8W		
R20			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R21			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R22			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R23			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R24 ,25			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R30			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R31 ,32			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R33			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R35			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R36			RD41DB2B154J	CYLND CHIP R 150K J 1/8W		
R37			RD41DB2B224J	CYLND CHIP R 220K J 1/8W		

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R39			RS14AB3A680J	FL-PRNF RS 68 J 1W		
R40			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R41 -44			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R46 -51			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R53			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R54			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R55			RD41DB2B2R2J	CYLND CHIP R 2.2 J 1/8W		
R56			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R61			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R66			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R67			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R70 ,71			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R72 ,73			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R74			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R75			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R77 ,78			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R80			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R82			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R83			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R84			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R85			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R86			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R87			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R88			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R89			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R90			RD41DB2B123J	CYLND CHIP R 12K J 1/8W		
R91			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R92 ,93			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R94			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R95			RD41DB2B183J	CYLND CHIP R 18K J 1/8W		
R96			RD41DB2B123J	CYLND CHIP R 12K J 1/8W		
R97			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R99			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R100			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R101			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R103			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R104			RD41DB2B334J	CYLND CHIP R 330K J 1/8W		
R120			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R125			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R127			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R128			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R129			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R130			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R131,132			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R135		*	RD41DB2B620J	CYLND CHIP R 62 J 1/8W		
R136			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R137			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R138			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R140			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R141			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R143			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R144,145			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R146		*	RD41DB2B360J	CYLND CHIP R 36 J 1/8W		
R147			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R148			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		

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R151			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R152			RD41DB2B152J	CYLND CHIP R 1.5K J 1/8W		
R154			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R155			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R156-158			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R159,160			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R162			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R163			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R165		*	RD41DB2B360J	CYLND CHIP R 36 J 1/8W		
R166			RD41DB2B563J	CYLND CHIP R 56K J 1/8W		
R167			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R168,169			RD41DB2B152J	CYLND CHIP R 1.5K J 1/8W		
R170			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R171			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		
R172			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R173,174			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R175,176			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R177,178			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R179			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R180			RD41DB2B154J	CYLND CHIP R 150K J 1/8W		
R181			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R182,183			RD41DB2B470J	CYLND CHIP R 47 J 1/8W		
R184			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R186			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R187			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R188			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R189			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
VR1			R13-0021-05	POTENTIOMETER(40) FADER		
VR2			R13-3035-05	POTENTIOMETER(20K)PRE FADER		
VR3			R13-3034-05	POTENTIOMETER(20K)VOLUME		
VR4		*	R12-2036-05	TRIMMING POT. SP-OUT LEVEL		
VR5			R12-1069-05	TRIMMING POT.(4.7K)DK-VCO		
VR6			R12-3097-05	TRIMMING POT.(22K) AM STOP		
VR7			R12-5046-05	TRIMMING POT.(100K)SK-START		
S1			S31-1011-05	SLIDE SWITCH		
D1			RD9.1JS(B2)	ZENER DIODE		
D2			MTZ5.6J	ZENER DIODE		
D2			RD5.6JS(B)	ZENER DIODE		
D3 -5			ERA15-01Y1	DIODE		
D6			1SS101	DIODE		
D7		*	DLS1585	DIODE		
D7			RLS-73	DIODE		
D8			RLZJ5.1	ZENER DIODE		
D9 ,10		*	DLS1585	DIODE		
D9 ,10			RLS-73	DIODE		
D11			1S1555	DIODE		
D12			ERA15-01Y1	DIODE		
D13		*	DLS1585	DIODE		
D13			RLS-73	DIODE		
D14			1SS101	DIODE		
D15		*	DLS1585	DIODE		
D15			RLS-73	DIODE		
D16 ,17			1S1555	DIODE		
D18 -22		*	DLS1585	DIODE		

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D18 -22			RLS-73	DIODE		
D26			1S1555	DIODE		
D27 -36		*	DLS1585	DIODE		
D27 -36			RLS-73	DIODE		
D40 ,41			DAN202K	DIODE		
D43			RLZJ5.1	ZENER DIODE		
D45			DAP202K	DIODE		
D50		*	DLS1585	DIODE		
D50			RLS-73	DIODE		
D57			DAN202K	DIODE		
D59			RLZJ5.1	ZENER DIODE		
D60		*	MTZ8.2J	ZENER DIODE		
D60		*	RD8.2JS(B)	ZENER DIODE		
D61			ERA15-01Y1	DIODE		
D64 -69		*	DLS1585	DIODE		
D64 -69			RLS-73	DIODE		
D70			DAN202K	DIODE		
D72			MTZ5.1J	ZENER DIODE		
D72			RD5.1JS(B)	ZENER DIODE		
D73 -80		*	DLS1585	DIODE		
D73 -80			RLS-73	DIODE		
D82			RLZJ5.1	ZENER DIODE		
D83 -87		*	DLS1585	DIODE		
D83 -87			RLS-73	DIODE		
IC1			UPD1707G-544-00	IC(DIGITAL TUNING SYSTEM)		
IC2			UPB553AC	IC(PRE SCALER)		
IC3			UPA81C	IC(7CH LED DRIVER)		
IC4			TD62506P	IC(7CH TRANSISTOR ARRAY)		
IC5			UPD4013BG	IC(D FLIP-FLOP X2)		
IC6			UPD4011BG	IC(NAND X4)		
IC7			UPD4013BG	IC(D FLIP-FLOP X2)		
IC8			TA7264P	IC(AF POWER AMP/ 5.8W X2)		
IC9		*	TA7343AP	IC(FM PLL MPX)		
Q1			2SC3668	TRANSISTOR		
Q2			2SB1015LB	TRANSISTOR		
Q3			2SC2412K	TRANSISTOR		
Q4			2SC3668	TRANSISTOR		
Q5			DTA144EK	DIGITAL TRANSISTOR		
Q6			DTC144EK	DIGITAL TRANSISTOR		
Q7			2SC2412K	TRANSISTOR		
Q8			2SD1328	TRANSISTOR		
Q8			2SD1757K	TRANSISTOR		
Q9 -11			2SC2412K	TRANSISTOR		
Q12 ,13			2SD1328	TRANSISTOR		
Q12 ,13			2SD1757K	TRANSISTOR		
Q14 ,15			2SC2412K	TRANSISTOR		
Q16			DTA144EK	DIGITAL TRANSISTOR		
Q17			DTA143XK	DIGITAL TRANSISTOR		
Q18			2SA1428	TRANSISTOR		
Q19			2SC2411K	TRANSISTOR		
Q20 ,21			DTC114TK	DIGITAL TRANSISTOR		
Q22 -25			DTC124EK	DIGITAL TRANSISTOR		
Q26			2SA1036K	TRANSISTOR		
Q27 ,28			DTC124EK	DIGITAL TRANSISTOR		
Q29			DTA124EK	DIGITAL TRANSISTOR		

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Q32			2SC2412K	TRANSISTOR		
Q33 -36			DTC124EK	DIGITAL TRANSISTOR		
Q38			DTA124EK	DIGITAL TRANSISTOR		
Q39			2SC2412K	TRANSISTOR		
Q40			DTC114TK	DIGITAL TRANSISTOR		
Q41 ,42			DTA124EK	DIGITAL TRANSISTOR		
Q43		*	DTC114YK	DIGITAL TRANSISTOR		
Q44			2SA1036K	TRANSISTOR		
Q45			2SA1428	TRANSISTOR		
Q46			DTC124EK	DIGITAL TRANSISTOR		
Q49			DTA124EK	DIGITAL TRANSISTOR		
Q51			DTC124EK	DIGITAL TRANSISTOR		
Q52			2SC2412K	TRANSISTOR		
Q53			DTC114TK	DIGITAL TRANSISTOR		
Q54			DTA124EK	DIGITAL TRANSISTOR		
Q56			2SC2412K	TRANSISTOR		
Q57			2SC2412K(S)	TRANSISTOR		
Q58 ,59			2SC2412K	TRANSISTOR		
Q61			DTC124EK	DIGITAL TRANSISTOR		
Q62 ,63			DTC114TK	DIGITAL TRANSISTOR		
Q69			DTC144EK	DIGITAL TRANSISTOR		
Q70			DTA124EK	DIGITAL TRANSISTOR		
Q71			DTC124EK	DIGITAL TRANSISTOR		
Q73			DTC114TK	DIGITAL TRANSISTOR		
Q74			DTC124EK	DIGITAL TRANSISTOR		
Q75			DTC114TK	DIGITAL TRANSISTOR		
Q76			DTC144EK	DIGITAL TRANSISTOR		
Q77 -80			DTC114TK	DIGITAL TRANSISTOR		
Q81			DTC144EK	DIGITAL TRANSISTOR		
Q82 ,83			DTC124EK	DIGITAL TRANSISTOR		
Q84			2SC2412K	TRANSISTOR		
Q85			DTC114TK	DIGITAL TRANSISTOR		
Q86			DTC124EK	DIGITAL TRANSISTOR		
Q88			DTC114TK	DIGITAL TRANSISTOR		
Q89			DTC144EK	DIGITAL TRANSISTOR		
Q90 ,91			DTC114TK	DIGITAL TRANSISTOR		
Q92			2SC2412K	TRANSISTOR		
Q94			2SC2412K	TRANSISTOR		
Q95			DTC124EK	DIGITAL TRANSISTOR		
Q96			DTC144EK	DIGITAL TRANSISTOR		
Q97			2SC2412K	TRANSISTOR		
Q98			DTC124EK	DIGITAL TRANSISTOR		
Q100			2SC2412K	TRANSISTOR		
Q101			DTA124EK	DIGITAL TRANSISTOR		
Q102			DTC124EK	DIGITAL TRANSISTOR		
-			W02-0653-05	TUNER ASSY		
SCREW SET (N99-0099-05)						
-			N09-0335-05	TAPPING SCREW (5X6)		
-			N09-0366-05	HEX. BOLT (M5X20)		
-			N10-1050-46	HEX. NUT (M5)		
-			N14-0117-05	FLANGE NUT (M5)		
CASSETTE MECHANISM ASS'Y (D40-0345-05)						
4	3A	*	D03-0249-08	REEL DISK ASSY		
5	3B	*	D10-1587-08	LEVER ASSY (FR ARM)		

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6	1A	*	D10-1588-08	LEVER ASSY (P.R ARM)F		
7	1B	*	D10-1589-08	LEVER ASSY (P.R ARM)R		
8	3A	*	D10-1590-08	LEVER ASSY (PØWER ARM)		
9	2A	*	D10-1591-08	LEVER ASSY (MØDE PLATE)		
10	1B	*	D10-1606-08	LEVER ASSY (SELECT ARM)		
11	1B	*	D10-1607-08	LEVER ASSY (PØWER PLATE)		
12	1B	*	D10-1608-08	LEVER ASSY (CHIP ARM)		
13	2A	*	D10-1592-08	LEVER ASSY (T CRANK)		
14	2B	*	D10-1593-08	LEVER ASSY (TIMING ARM)		
15	1A	*	D10-1594-08	ARM (HØUSING ARM)		
16	3A	*	D13-0322-08	GEAR ASSY (REEL PUSH)		
17	3B	*	D13-0321-08	GEAR ASSY (FF GEAR)		
18	2B	*	D13-0323-08	GEAR ASSY (RVS GEAR)		
19	2B	*	D13-0324-08	GEAR ASSY (EJ GEAR)		
20	3B	*	D01-0083-08	FLYWHEEL ASSY		
21	3A	*	D15-0240-08	PULLEY ASSY (TENSIØN PULLEY		
25	2B	*	D10-1595-08	LEVER (RVS PLATE)		
26	2A	*	D10-1596-08	LEVER (FF PLATE)		
27	2A	*	D10-1597-08	LEVER (BRAKE PLATE)F		
28	2B	*	D10-1598-08	LEVER (BRAKE PLATE)R		
29	2A	*	J19-2620-08	BRACKET (PLUNGER)AT		
30	2B	*	J19-2621-08	BRACKET (PLUNGER)B		
31	2B	*	D10-1609-08	ARM (TRIGGER PLATE)		
32	3B	*	D10-1610-08	ARM (RVS TRIGGER)		
33	2B	*	D10-1611-08	LEVER (EJ PLATE)		
34	2B	*	D10-1612-08	LEVER ASSY (RESET PLATE)		
35	1B	*	J19-2624-08	BRACKET		
36	1B	*	D10-1599-08	ARM (ADJUSTER)		
37	1A	*	G02-0383-08	PLATE SPRING		
38	1A	*	J19-2622-08	HØLDER (CASET HØSING)		
39	3B	*	D10-1600-08	ARM (GEAR SHAFT GUIDE)		
40	1A	*	J19-2623-08	BRACKET (TRØ)		
41	1A	*	D10-1601-08	ARM (ØVER CENTER PLATE)		
42	2B	*	D10-1613-08	LEVER (SLIDE PLATE)		
43	2A	*	D10-1602-08	SLIDER (PLUNGER BUFFER		
45	2A	*	D10-1603-08	ARM (FF CRANK)		
46	1B	*	D10-1604-08	ARM (AZIMUTH ARM)		
47	1B	*	D14-0137-08	RØLLER (H/P) C		
48	1A	*	J90-0162-08	GUIDE (CATCH)		
49	1A	*	D14-0138-08	RØLLER (H/A)		
50	3A,3B	*	D13-0318-08	GEAR (IDLER)		
51	3A	*	B09-0056-08	CAP (REEL DRIVER)		
52	3A	*	D13-0319-08	GEAR (Ø15.2)		
53	3B	*	D13-0320-08	GEAR (INPUT)		
54	2B	*	D13-0325-08	GEAR (A)		
55	3B	*	D13-0326-08	GEAR (B)		
56	3B	*	D13-0327-08	GEAR (C)		
57	3B	*	D13-0328-08	GEAR (MØDE)		
60	2A	*	D14-0139-08	RØLLER (TIMING/A)		
61	2A	*	D21-1118-08	SHAFT (FF CRANK)		
62	2A	*	D14-0140-08	RØLLER (H/P RØLLER) A		
63	2A	*	D14-0141-08	RØLLER (H/P RØLLER) B		
64	2B	*	D14-0142-08	RØLLER (MØDE)		
65	2B	*	J30-0214-08	SPACER		
66	2A	*	J32-0303-08	STUD		

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67	1B	*	N09-1583-08	SCREW		
70	1A	*	G01-1794-08	TORSION SPRING (P.R ARM) F		
71	1B	*	G01-1795-08	TROSION SPRING (P.R ARM) R		
72	1A	*	G01-1796-08	TENSION SPRING (H/P)		
73	2B	*	G01-1797-08	TENSION SPRING (IDLER)		
74	3A	*	G01-1798-08	TORSION SPRING (FF ARM)		
75	2A,2B	*	G01-1799-08	TENSION SPRING (BRAKE)		
76	2B	*	G01-1805-08	TORSION SPRING (TRIGGER)		
77	3B	*	G01-1806-08	TENSION SPRING (RVS/T)		
78	1B	*	G01-1807-08	TENSION SPRING (CHIP ARM)		
79	2B	*	G01-1808-08	TENSION SPRING (STARTER)		
80	2B	*	G01-1809-08	TENSION SPRING (EJ/P)		
81	2B	*	G01-1810-08	TENSION SPRING (RESET/P)		
82	3A	*	G01-1793-08	COMPRESSION SPRING (SLEEVE)		
83	1B	*	G01-1800-08	COMPRESSION SPRING		
84	2A	*	G01-1801-08	TENSION SPRING (POWER)		
85	2B	*	G01-1802-08	TORSION SPRING (TIMING ARM)		
86	1A	*	G01-1803-08	TORSION SPRING (REVERSE)		
87	2B	*	G01-1823-08	TENSION SPRING		
88	2A	*	G01-1804-08	TENSION SPRING (BUFFER)		
89	2A	*	G11-1145-08	CUSHION (CH)		
90	3B	*	D16-0127-08	BELT		
91	1A	*	D10-1605-08	ROD (OVER CENTER ROD		
92	1B	*	N09-1584-08	SCREW (AZIMUTH)		
93	2A	*	J30-0213-08	SPACER (T)		
94	1B	*	G11-1144-08	SOFT TAPE		
95	1A	*	T43-0047-08	MOTOR ASSY		
96	1A	*	T31-0032-08	PLAYBACK HEAD		
100	1B	*	S46-1077-08	LEAF SWITCH (MLS-2)		
101	1B	*	S46-1078-08	LEAF SWITCH (MLS-4)		
102	1B	*	S31-4020-08	SLIDE SWITCH (HEAD)		
103	2A,2B	*	T94-0094-08	SOLENOID (PLUNGER)		
104	2A	*	T94-0092-08	SOLENOID (PLUNGER)		
105	2A	*	T94-0093-08	SOLENOID (PLUNGER)		
110	1B	*	N09-1585-08	SCREW (M1.7X7)		
111	2A	*	N09-1586-08	SCREW (M2X5.5)		
112	1B	*	N09-1587-08	SCREW (M2X3)		
113	2B	*	N09-1588-08	SCREW (M2X5)		
115	1A,2A	*	N09-1589-08	SCREW (M2X4)		
116	2B	*	N09-1590-08	SCREW (M2X5)		
120	2A,3B		N24-3012-41	E TYPE RETAINING RING (Ø1.2)		
121	2A,2B		N24-3015-41	E TYPE RETAINING RING (Ø1.5)		
122	2A,2B	*	N29-0097-08	E TYPE RETAINING RING(Ø1.6X3.5		
123	1A		N24-3025-41	E TYPE RETAINING RING (Ø2.5)		
124	3A,1B		N24-3030-41	E TYPE RETAINING RING (Ø3)		
130	3A,3B	*	N19-0374-05	FLAT WASHER (Ø1.2X3X.25)		
131	3A,3B	*	N19-0375-05	FLAT WASHER (Ø1.6X3.2X.25)		
132	3B	*	N19-0987-08	FLAT WASHER (Ø1.6X3.2X.5)		
133	2B,3B	*	N19-0988-08	FLAT WASHER (Ø2.1X3.5X.25)		
134	3A,3B	*	N19-0989-08	FLAT WASHER (Ø2.1X4X.25)		
135	3A	*	N19-0990-08	FLAT WASHER (Ø2.1X4X.25)		
136	3B	*	N19-0991-08	FLAT WASHER (Ø2.1X4X.5)		
150	3A	*	D03-0248-08	REEL DISK ASSY		
151	1B		J25-4768-08	PRINTED WIRING BOARD		
152	2B	*	A11-0179-08	SUB CHASSIS ASSY		

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--		*	J61-0077-08	WIRE BAND		

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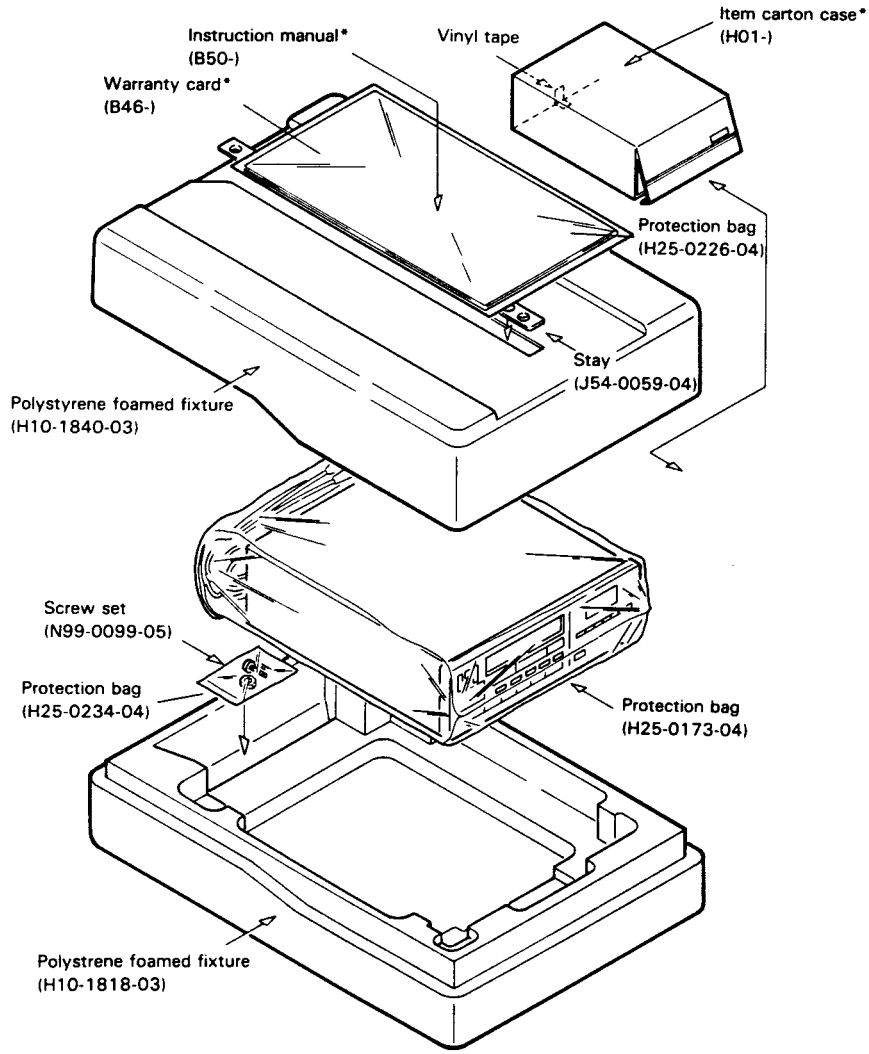
PACKING



* Refer to Parts list on page 17.

SPECIFICATIONS

FM Tuner Section

Frequency range	87.5 ~ 108.0 MHz
Usable sensitivity (DIN)	1.5 μV/75 Ω
Stereo sensitivity (S/N = 46 dB)	2.3 μV/75 Ω
Frequency response (±4.5 dB)	30 ~ 15,000 Hz
Signal to noise ratio (IEC-A)	70 dB
Selectivity (DIN)	65 dB
Stereo separation (1 kHz)	40 dB
19 kHz carrier leakage	50 dB

MW Tuner Section

MW frequency range	522 ~ 1,611 kHz
MW usable sensitivity	30 μV

LW Tuner Section

LW frequency range	153 ~ 279 kHz
LW usable sensitivity	45 μV

Cassette Deck Section

Tape speed	4.76 cm/s
Wow & flutter (WRMS)	0.12% (WRMS)
Wow & flutter (DIN)	0.2% (W-PEAK)
Fast winding time (C-60)	100 s
Frequency response (+4, −6 dB)	30 Hz ~ 16 kHz (120 μs) 30 Hz ~ 18 kHz (70 μs)
Stereo separation (1 kHz)	37 dB
Signal to noise ratio (IEC-A)	
Dolby NR OFF	55 dB
Dolby B ON	65 dB
Dolby C ON	72 dB

Audio Section

Max. output power	6 W × 2 into 4 ohms, 1 kHz
Power output	5 W × 2 into 4 ohms, 1 kHz, at 10% THD 4 W × 2 into 4 ohms, 20 Hz ~ 20 kHz at 1% THD
Tone action	Bass: 100 Hz ± 10dB Treble: 10kHz ± 10dB
Preout level/Impedance	Normal: 300 mV/180 ohms High: 1.0 V/180 ohms

General

Operating volgtage	14.4 V (11 ~ 16 V allowable)
Current consumption	2.7 A at Rated Power
Body size	180 × 52 × 155 mm (7-1/16 × 2-1/16 × 6-1/8in.)
Weight	4.0 lbs (1.8 kg)

Specification subject to change without notice.

STEREO CASSETTE RECEIVER

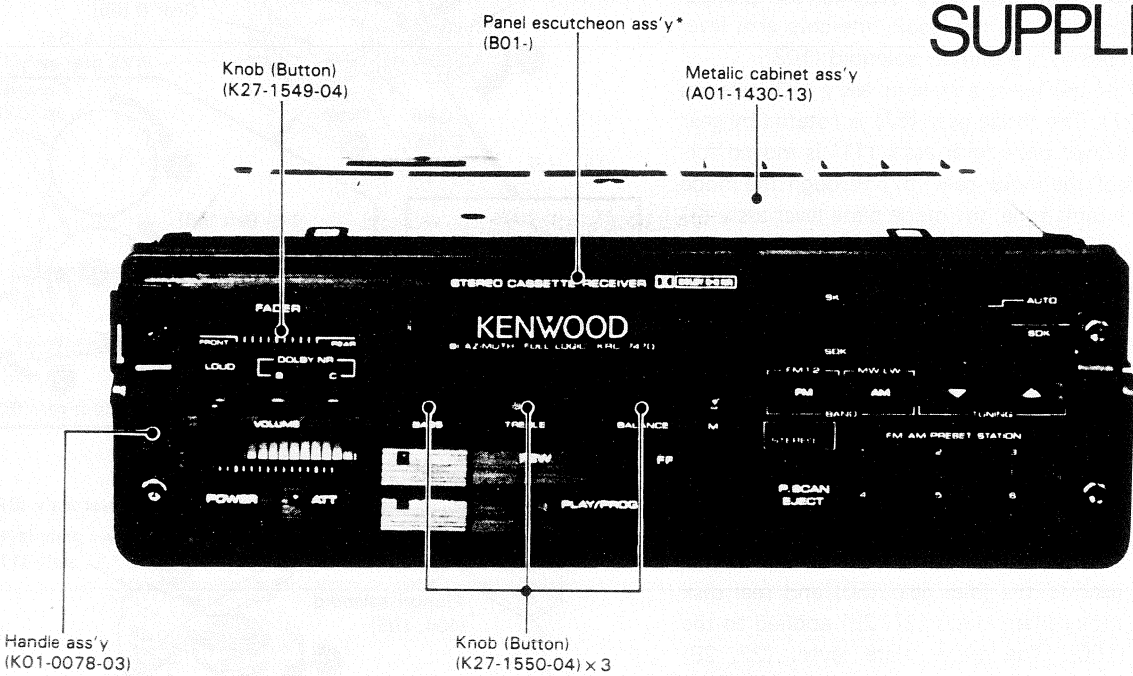
KRC-747D

SERVICE MANUAL

KENWOOD

(C)1987-6 PRINTED IN JAPAN
B51-1958-10 (O) 974

SUPPLEMENT

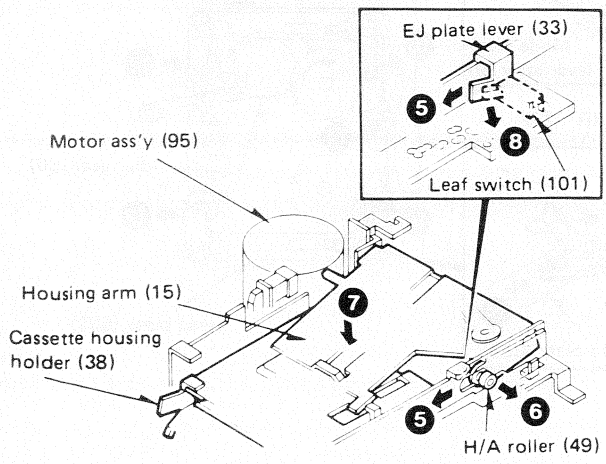


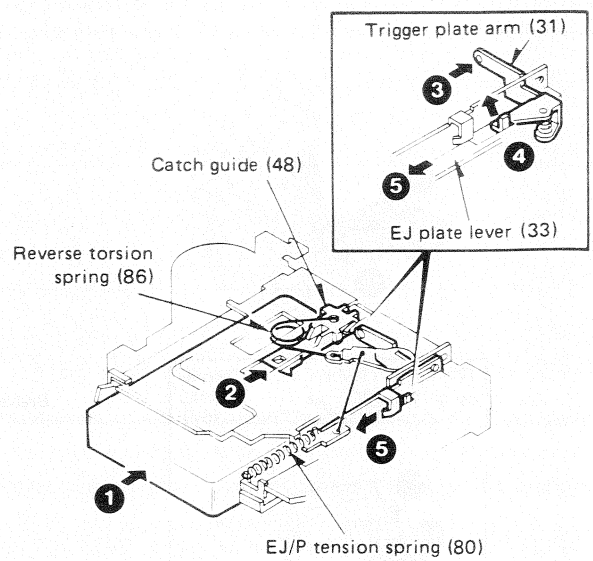
MECHANISM OPERATION

1. Loading

If the cassette tape is pressed by the finger, the catch guide (48) is pushed in and the reverse torsion spring (86) is set on the loading side. If the cassette is pushed into the end, the trigger plate arm (31) rotates and the EJ plate lever (33) is released. Then, EJ/P tension spring (80) pulls the EJ plate lever (33) and the housing arm (15) and cassette housing holder (38) are pushed down through the H/A roller (49). The head plate (803) is also moved to the mode plate lever ass'y (9). The leaf switch (101) is also pressed. At this time, the plunger solenoid (103) is turned on and the motor ass'y (95) rotates.

Note : The number in the parentheses refer to the Ref. Nos. in the exploded view. (P.17)





MECHANISM OPERATION

2. PLAY

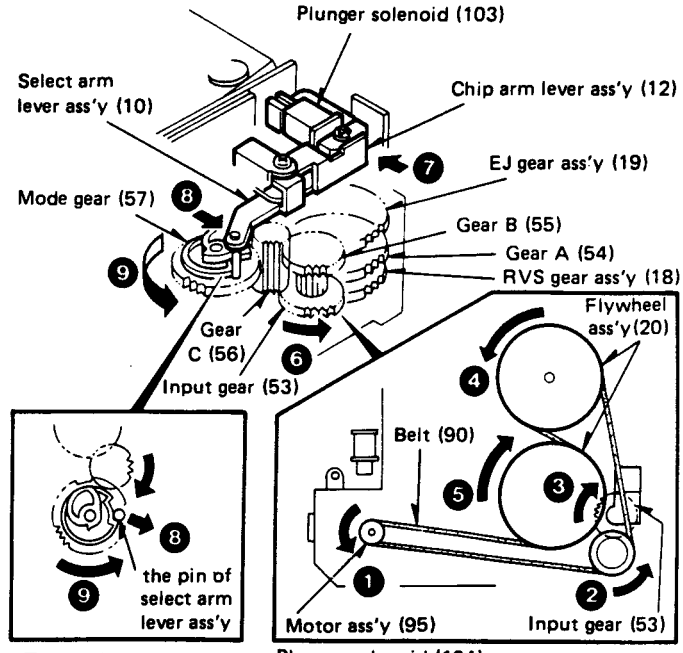
The rotation of the motor ass'y (95) is transmitted through the belt (90) to the flywheel ass'y (20) to rotate the input gear (53). Next, gear A (54), gear B (55), and gear C (56) rotate. Then, the EJ gear ass'y (19) rotates to move the select arm lever ass'y (10) to the plunger solenoid (104, 105) side. As the result, the chip arm lever ass'y (12) is attracted by the plunger solenoid (103).

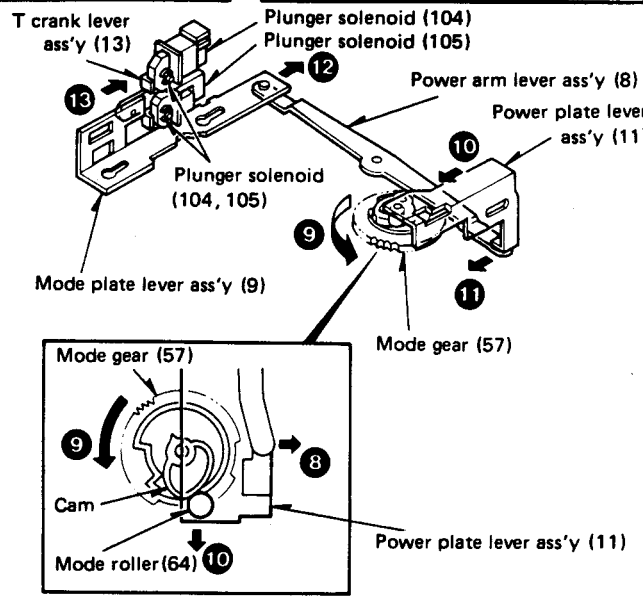
The other pin of the select arm lever ass'y (10) releases the mode gear (57). The mode gear (57) is rotated by gear C (56), and the power plate lever ass'y (11) is moved forward by the cam of the mode gear (57) through the mode roller (64). At the same time, the mode plate lever ass'y (9) is moved backward through the power arm lever ass'y (8). The mode plate lever ass'y (9) is attracted by the FF and REW solenoid (104, 105) through the T crank lever ass'y (13).

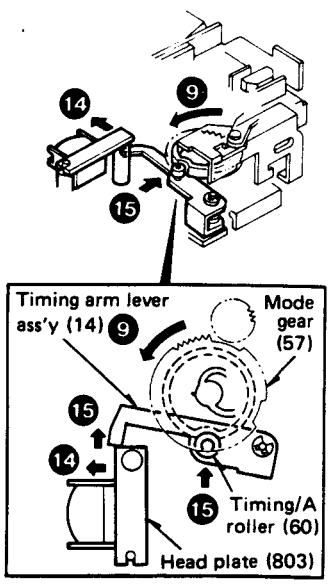
After the above operation, timing/A roller (60) of the timing arm lever ass'y (14) under the mode gear (57) is put in the groove of the cam of mode gear (57) to lock the gear. By this operation of the timing arm lever ass'y (14), the head plate (803) is pulled by the H/P tension spring (72) to the PLAY position.

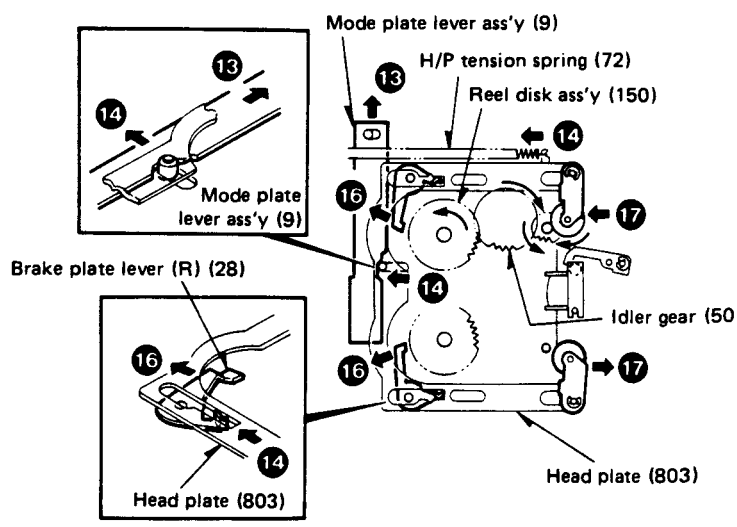
The rotation of the flywheel ass'y (20) is transmitted from the inside gear to the idler gear (50) and reel disk ass'y (150). The brake plate levers (27, 28) applied to the reel disk ass'y (150). The brake plate levers (27, 28) applied to the reel disk ass'y (150) has been released by the head plate. In the PLAY mode, the mode gear (57), EJ gear ass'y (19), and RVS gear ass'y (18) are locked by the notches.

Note :If the power tension spring (84) is removed, the mechanism can be checked easily.








Mode plate lever ass'y (9)
H/P tension spring (72)
Reel disk ass'y (150)
Mode plate lever ass'y (9)
Brake plate lever (R) (28)
Idler gear (50)
Head plate (803)
Head plate (803)

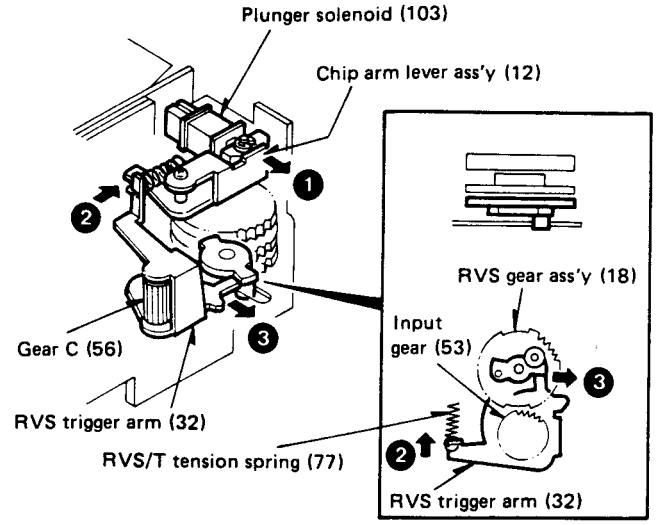
MECHANISM OPERATION

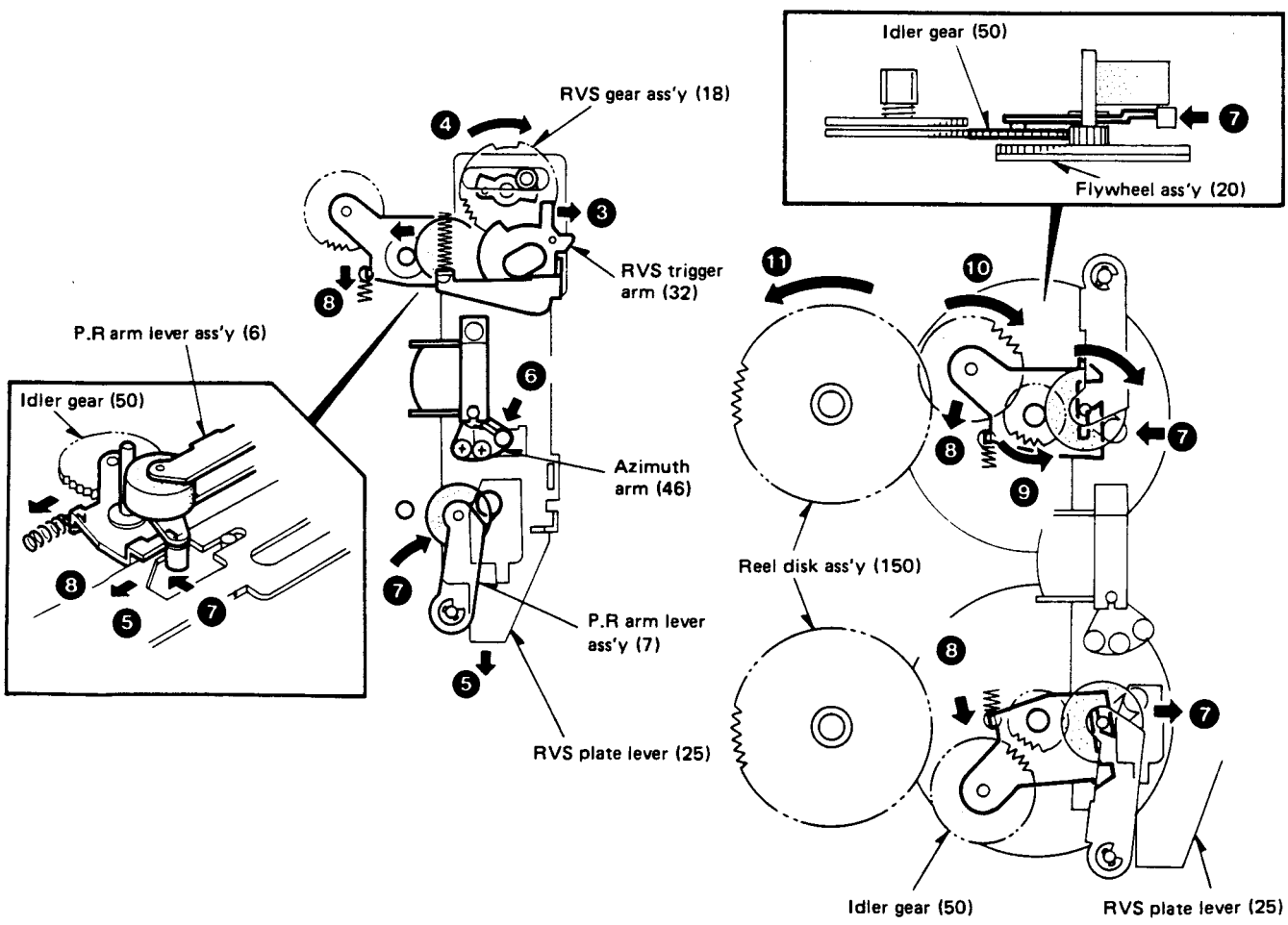
3. PROG.

If the program button is pressed, the plunger solenoid (103) is turned off and the chip arm lever ass'y (12) is moved outward. At the same time, the RVS trigger arm (32) releases the RVS gear ass'y (18) through the RVS/T tension spring (77).

Then, the RVS gear ass'y (18) is rotated a half turn by the input gear (53), and the RVS plate lever (25) is moved. At this time, the RVS trigger arm (32) is set to the lock side by the RVS gear ass'y (18), then the chip arm lever ass'y (12) is attracted again by the plunger solenoid (103) because of the force of the chip arm tension spring (78).

The RVS plate lever (25) moves the head slide switch (102), azimuth arm (46), and P.R arm lever ass'y (6, 7). The P.R arm lever ass'y (6, 7) moves the idler gear (50) through the idler gear arm of the main chassis ass'y (801).





MECHANISM OPERATION

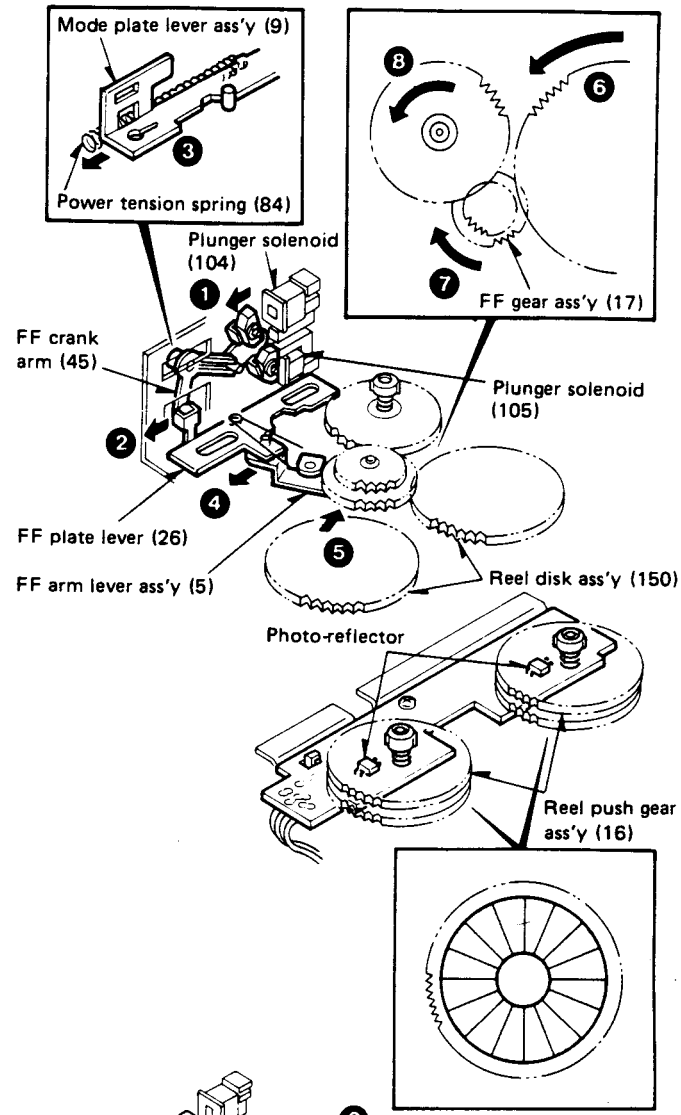
4. FF/REW

If FF or REW button is pressed, the plunger solenoid (104) or (105) is turned off depending on the direction of PLAY, and the T crank lever ass'y (13) is rotated by the force of the power tension spring (84). At this time, the head plate (803) is moved a little backward by the movement of the mode plate lever ass'y (9). The FF crank arm (45) is rotated by the T crank lever ass'y (13) to slide the FF plate lever (26) and rotate the FF arm lever ass'y (5). Then, the rotation of the flywheel ass'y (20) is transmitted to the reel disk ass'y (150) through the FF gear ass'y (17).

If the PLAY/PROG. button is pressed, both plunger solenoid (104, 105) are turned off and the head plate (803) is returned to the position after the loading, then it is reset to the PLAY mode by the rotation of the motor ass'y (95). The tape advancing and index scanning operation is performed similarly.

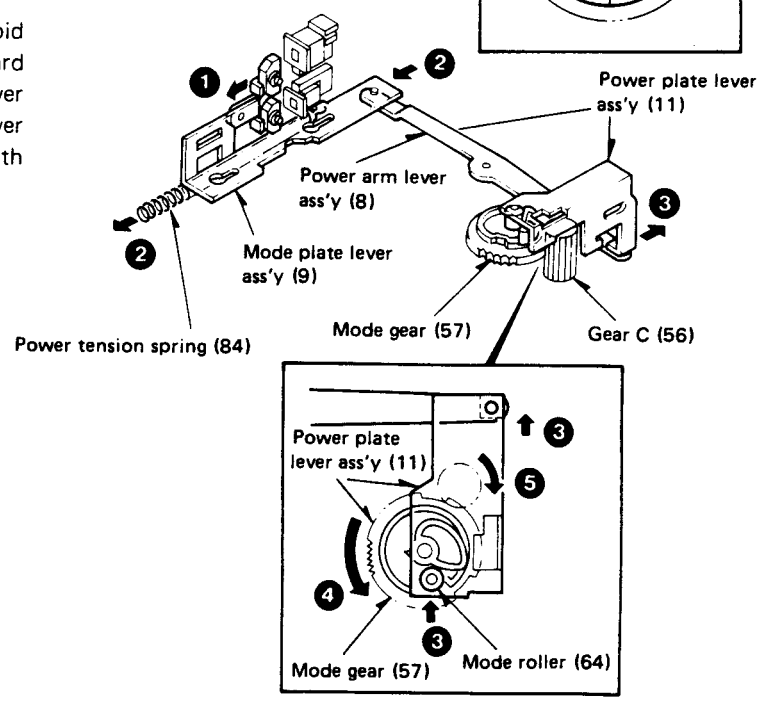
5. Automatic reverse

the rotation is sensed by the photo-reflector on the back side of the reel push gear ass'y (16) of the reel disk ass'y (150). The sensed signal is input to the mechanism control IC to start the program.



6. Eject

If the eject button is pressed, all the plunger solenoid are turned off. The head plate (803) is moved backward by the force of the power tension spring (84). The power plate lever ass'y (11) is pushed back through the power arm lever ass'y (8), and the mode gear (57) is meshed with gear C (56) by the mode roller (64).


Power plate lever ass'y (11)
Power arm lever ass'y (8)
Mode plate lever ass'y (9)
Power tension spring (84)
Mode gear (57)
Gear C (56)
Power plate lever ass'y (11)
Mode gear (57)
Mode roller (64)

MECHANISM OPERATION

The mode gear (57) is rotated and the pin of the select arm lever ass'y (10) is put in the groove of the peripheral cam of the mode gear. Then, the EJ gear ass'y (19) is meshed with gear B (55) and rotated by releasing the other pin of the select arm lever ass'y (10). The reset plate lever ass'y (34) is moved back by the upper boss of the EJ gear ass'y (19) to turn on the leaf switch (100) for ejection to turn on the motor.

At the same time, the EJ plate lever (33) is also moved back and fixed to the trigger plate arm (31) through the tension spring (87) for preventing an overload. While the reset plate lever ass'y (34) is moving back, the catch guide (48) is pushed forward through the over center rod (91). At this time, the cassette housing holder (38) is lifted by the EJ plate lever (33).

Then, the EJ gear ass'y (19) rotates. When its boss is parted from the reset plate lever ass'y (34), the reset plate lever ass'y (34) is returned to the forward position by the reset/P tension spring (81). At this time, the over center rod (91) is pulled, and the catch guide (48) is moved forward to discharge the cassette.

Even if the power switch is turned off, the loading operation can be performed, but the mechanism is set to the ejection mode immediately, because the loading mechanism is turned on by the leaf switch (101) and the motor is turned on by the leaf switch (100) to start the ejection operation.